

#### C D M FEDERAL PROGRAMS CORPORATION

Re: 10e, 3d, &f 3e

November 5, 1991

Mr. Cesar Lee EPA Work Assignment Manager U.S. Environmental Protection Agency 841 Chestnut Street Philadelphia, Pennsylvania 19107

PROJECT:

EPA CONTRACT NO: 68-W9-0004

DOCUMENT NO:

TES7-C03042-EP-CNTX

SUBJECT:

Work Assignment C03042

Salford Quarry Superfund Site

Dear Mr. Lee:

Enclosed please find the letter to residents disclosing sample results for the above referenced work assignment.

If you have any questions, please contact me at (215) 293-0450.

Sincerely,

CDM FEDERAL PROGRAMS CORPORATION (FPC)

Mark diFeliciantonio Regional Manager

MdF/slf

cc: B. Forcer (3W441) P. STEENBERGY (3EAZI)
L. OWENS (3HW31)
R. SHUTH (3HW15)

D. EWALD, PLDER

C. HAYPEN (3RCZI) FOR EXTINATION HEGGEING

Enclosure

Donna McGowan, TES VII Regional Project Officer, CERCLA Region III (letter cc: AR500124 Jean Wright, TES VII Zone Project Officer (letter only) Constance V. Braun, FPC Program Manager

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

### 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

223 Shady Nook Hill Road Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear

A sample from your home well was collected on July 18, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and no contaminants were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding \$10.0125



reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

SE Pennsulvania Bending tion

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

### VOLATILE ORGANICS ANALYSIS DATA SHEET

A SAMPLE NO.

69753

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69797

Matrix: (Soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol:

5.0 (g/mL) ML

Lab File ID: E4424

evel: (low/med) LOW

75-25-2----Bromo form

591-78-6----2-Hexanone\_

108-90-7-----Chlorobenzene

100-41-4----Ethylbenzene\_

1 1330-20-7-----Xylene (total)

108-68-3----Toluene

100-42-5----Styrene

108-10-1----4-Methyl-2-Pentanone

79-34-5----1, 1, 2, 2-Tetrachloroethane

127-18-4----Tetrachloroethene

Date Received: 7/13/91

x Maisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor:

1.00

CONCENTRATION UNITS:

CAS NO.	COMPOUND (12	g/L or ug/Kg) UG	/L	G	}
	<del></del>	t		ļ	
74-97-3-	Chloromethane		10.	IU	
74-83-9-	Bromomethane		10.	I U	
	Vinyl Chloride		10.	เบ	
75-00-3-	Chloroethane		10.	ΙÜ	
75-09-2-	Methylene Chloride_		5.	IU	
67-64-1-	Acetone	1	10.	ΙÜ	
75-15-8-	Carbon Disulfide	I	5.	IU	
75-35-4-	1,1-Dichloroethene_		5.	ΙU	
75-34-3-	1,1-Dichloroethane_		5.	IU	
540-59-0-	1,2-Dichloroethene	(total)i	5.	IU	
67-66-3-	Chloroform		5.	IU	
107-06-2-	1,2-Dichloroethane_		5.	ΙÜ	
	2-Butanone		10.	IU	
	1, 1, 1-Trichloroethan		5.	ΙU	
56-23-5~	Carbon Tetrachloride	<u> </u>	- 5.	IU	
108-05-4-	Vinyl Acetate	I	10.	ΙŪ	
75-27-4	Bromodichloromethan		5.	ΙŪ	
78-87-5-	1,2-Dichloropropane	1	5.	ΙŪ	
10061-01-5	cis-1,3-Dichloropro	penel	5.	(U	
	Trichloroethene		5.	IU	
	Dibromochloromethani		5.	ΙŪ	
	1, 1, 2-Trichlorgethan		5.	เบ	
71-43-2-	Benzene	1	5.	IU	
10061-02-6-	Trans-1,3-Dichlorop	ropene	5.	IU	

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# MCLATILE OF MICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

	<del></del>
69753	

EPA SAMPLE NO.

Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4424

Level: (low/med) LOW

Date Received: 7/19/91

% Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor:

CONCENTRATION UNITS:

Number TICs found: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	l RT		1 1 <b>Q</b>
<b>22</b>	*======================================		==========	3222 
1		-!	<u> </u>	!
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<u>*• </u> -	·	-!	!	!
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### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA BAMPLE NO.

69753

Lab Name: NET

Contract:

Lab Code: NET

Case No. : SALFORD SAS No. :

SDG No. : 69797

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 1800.0 (g/ml) ML

Lab File ID: A9223

Level: (low/med) LOW

x Maisture: not dec. 188.

dec.

Date Received: 7/19/91

Extraction: (SepF/Cont/Sone) CONT

Date Extracted: 7/23/91 Date Amalyzed: 7/28/91

SPC Cleanup: (Y/N) N

ρHi

Dilution Factors

CONCENTRATION UNITS:

CAS NC.	COMPOUND (ug/L or c	ig/Kg) UG/L	G
		1	1
108-95-2	Pheno1	1 10.	ĬΠ
111-44-4	bis(2-Chloroethy1)ather	_1 10.	IU
95-57-8	2-Chlorophenol	<b>_1</b> 14,	ıu
541-73-1	1, 3-Dichlorobenzene	! 18.	10
106-46-7	1,4-Dichlorobenzene	_1 10,	!U
188-5:-6	Bemzyl alcohol	_1 18.	10
95-50-1	1, 2-Dichlorobenzene	} 1 <b>0</b> ,	טו
95-48-7	2-Methylphenol	1 10.	1 U
9638-32-9	bis(2-Chloroisopropyl)sther	10.	10
106-44-5	4-Methylphenol	_1 10.	18
621-64-7	Nitroso-di-n-propylamine	_{ 10.	lu .
67-72-1	Hexachlorosthans	10.	IU
98~95-3	Nitrobenzane	18.	IU
	Isophorone	_, ,,	าบ
88-75-5	2-Nitrophenol	1 10.	IU
105-67-9	2, 4-Dimethylphenol	12.	IÜ
65-85-0	Benzoic acid	50.	įŭ
	bis(2-Chloroethoxy)methane		(U
120-63-2	2, 4-Dichlorophenol	10.	iù
122-82-1	1, 2, 4-Trichlorobenzane	15.	ıu
91-20-3	Naphthalene		าบ
106-47-3	+-Chloroaniline		່ານ
	Hexachlorobutadiene		iu
59-50-7	4-Chioro-3-methylphenol		Ü
91-57-4	2-Methylnaphthalane	ie.	iŭ
77-47-4	Hexachlorocyclopentadiene		iū
98-04-9	2, 4, 5-Trichlorophenol	10.	iŭ
95-95-4	2, 4, 5-Trichlorophenol	56.	10
91-81-7	2-Chloronaphthalana		10
	2-Nitroaniline		מו
171-11-7			10
191-11-3	Dimethylphthalate	' 10.	יטי
548-38-8	Acenaphthylene	1 D.	
#4 <b>9</b> _\$4-5	2, 6-Dinitrotoluene	1 19.	ľ

EFA BAMPLE NO.

Lab Name: NET

181

Contracti

Lab Code: NET Case No.: SALFORD SAS No.: SDS No.: 59797

Matrix: (soil/water) WATER

Lab Sample ID:

**DRAFT** 

Sample wt/vol: 1988.8 (g/mL) ML

Lab File ID: 89223

Level: (low/med) LOW

CAB NO.

Date Received: 7/19/91

# Moisture: not dec. 100. dec. 0.

Date Extracted: 7/23/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/28/91

GPC Cleanup: (Y/N) N pH: .8

Dilution Factors

	CONCENTRATION UNITS:	
COMPOUND	(ug/L or ug/Kg) UB/L	0

99-09-2	3-Nitroaniline!	50.	IU I
83-32-9	Acenaphthene!	10.	IU I
51-28-5	2, 4-Dinitrophanol	58.	ו טו
100-02-7	4-Nitrophenol	50.	IU I
132-64-9	Dibenzofuran	ıø.	ו עו
121-14-2	2, 4-Dinitrotoluene1	10.	ו עו
84-66-2	Disthylphthalatsi	18.	10 1
005-72-3	4-Chiorophenyl-phenylether!	10.	ių i
86-73-7	Fluorene!	1 <b>0.</b>	ן טו
139-91-6	4-Nitroaniline	50.	lU I
534-52-1	4, 5-Dinitro-2-methylphenoli	59.	10 1
86-38-6	N-Nitrosodiphenylamine (1)	10.	lu l
181-55-3	4-Bromophenyl-phenylather!	10.	ו טו
118-74-1	Hexachlorobenzene	10.	ו עו
87-86-5	Pentachlorophenol1	. 50.	ו טו
85-81-8	Phananthrana	19.	lu i
128-12-7	Di-n-butylphthelets	19.	ו טו
84-74-2	Di-n-butylphthalate	10.	IU I
208-44-0	Fluoranthene	10.	ו טו
129-00-0	Pyrene	10.	iu i
85-68-7	Butylbenzylphthalate	19.	iŭ i
91-94-1	J, 3' -Dichleropenzidine	20.	iŭ i
56-55-3	Senzo (a) anthracene	10.	iŭ i
218-81-9	Chrysene	19.	เบ้ เ
	bis(2-Ethylhexyl)phthalate_!	10.	tū i
117-84-0	Di-n-octylphthalate	10.	i üi
205-55-2	Benzo (b) fluoranthene	19.	10 1
207-08-9	Banzo(k) fluorenthens	10.	10 i
58-32-8	Benzo (a) pyranei	10.	iŭ i
193-39-5	Indeno (1, 2, 3-cd) pyrene	10.	iū i
53-78-3	Dibens (a, h) anthracene	10.	iu i
191-24-2	Benzo (g, h, i) perylene!	10.	10 A R 15

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

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· _		<del></del>	
	69	753	1

Lab Name: NET

Contract:

Lab Code: NET

Case No. 1 SALFORD SAE No.: SDB No. 1 69797

Matrix: (soil/water) WATER

Lab Sample ID:

DRATT

Sample wt/vol: 1888.8 (g/mL) ML

Lab File ID: A9223

Level: (low/med) LOW

Date Received. 7/10/91

x Moisture: not dec. 100. dec.

Number TICs found: 0

Date Extracted: 7/23/91

Extraction: (SepF/Cont/Sone) CONT

Date Analyzed: 7/28/91

SPC Cleanup: (Y/N) N pH: .0

Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) US/L

CAS NUMBER COMPOUND NAME I EST, CONC. I Q I 1 1 17. 1 27. 1 28. 1 29.\_

AR500130

FORM I SV-TIC

1/87 Rev.

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	4. 15001

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

	1 23110104 011		e phin dire	· · · · · · · · · · · · · · · · · · ·	
Lab Name:	CAMBRG		Contract:	ENVIRON	DO16GWO1
Lab Code:	CAMBRG - Cas	e No. : <u>FD414B</u>	SAS No. :	SDC	No.:
Matrix: (	soil/water) WA	TER	L	ab Sample ID:	0565-12618
Sample wt	:/vol: 10	00 (g/mL) <u>ML</u>	<u> </u>	ab File ID:	
Level:	(low/med) <u>LC</u>	<u>u</u> .	۵	ate Received.	07/19/91
% Moistur	e not dec	dec	ם	ate Extracted	07/23/91
Extraction	on: (SepF/Cor	t/Sanc) <u>SE</u>	PF D	ate Analyzed:	08/04/91
GPC Clear	nup: (Y/N) <u>N</u>	ρH: <u>-</u> <u>-</u>	<u>. 0</u> D	ilution Factor	: <u>1 00</u>
· CA	S NO.	COMPOUND		RATION UNITS: r ug/kg) <u>ug/l</u>	. G
31   32   35   36   37   36   37   37   37   37   37	9-84-6 9-85-7 9-86-8 3-89-9 9-00-2 9-98-8 9-98-8 2-55-9 2-20-8 2-313-65-9 2-31-07-8 2-43-5 2-43-5 3494-70-5	beta-BHC delta-BHC Lindane Heptachlor Aldrin Heptachlor epo Endosulfan I Dieldrin 4,4'-DDE Endosulfan II 4,4'-DDD Endosulfan sul 4,4'-DDT Methoxychlor endrin ketone alpha-Chlordar	fate		050   U
	2674-11-2 1104-28-2 1141-16-5 3469-21-9	Toxaphene Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242			1.01U ; 0.501U ; 0.501U ; 0.501U ; 0.501U ;

AR500131

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

69753

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Zab Code: NET Case No.: SAS No.: SALFORD SDG No.: 69683

atrix (soil/water): WATER

Lab Sample ID: 23180-115

Level (low/med): LOW

Date Received: 07/19/91

Solids:

0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L DRAFT

	\$	·	۱		1	1
CAS No.	Analyte	Concentration	С	Q	М	į
7429-90-5	Aluminum	30.00	ប៊		P	ί
	Antimony	25.00	В		P	Į.
7440-38-2	-	2.00	B		F	}
7440-39-3	Barium	197.00	B	Ì	P	)
7440-41-7	Beryllium	2.00	U	1	P	]
7440-41-7	[Cadmium	2.00	U	t	Į P	l
7440-70-2	Calcium	38500.00	l	l	P	Į.
7440-47-3	Chromium	3.00	טן	ļ	P	{
7440-48-4	Cobalt	5.00	U	<b>!</b>	P	j
7440-50-8	Copper	19.00	B	1	ļ P	}
7439-89-6		11.00	ַ ט	l	P	ł
7439-92-1	Lead	13.00	l	l	F	ţ
7439-95-4	Magnesium	17300.00	1	1	P	<b>!</b>
7439-96-5	Manganese	2.00	ָט וָ	i	P	1
	Mercury	0.20	U	1	CA	1
7440-02-0		6.00	U	1	P	1
7440-09-7	Potessium	868.00	B	ł	l P	Į
7782-49-2	Selenium	3.00	D	ł	F	<b>!</b>
7440-22-4	Silver	1 4.00	ט ן	}	P	1
7440-23-5	Sodium	9140.00	1	}	P	t
7440-28-0	Thellium	.3.00	U	1	F	]
7440-62-2	Vanadium	1 4.00	ַ ט	l	l P	
7440-66-6	Zinc	23.00	ţ	<b>!</b>	P	l
	Boron	1 600.00	}	}	P	ł
	Cyanide	10.00	ט (	}	C	រ
	J	Ì	1_	J	I	1

olor Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

omments:

8	2	6	₿	-	D	0	1	6	_	G	W	0	1	L
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7/00

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### LABELLING CODES FOR GRAPHITE FURNACE AA ANALYSIS

BLANK - Standard Blank

STANDARD 1 - STD 1 STANDARD 2 - STD 2-STANDARD 3 - STD 3 STANDARD 4 - STD 4

CSBLK/CBBLK - Calibration/Verification Blank

CSSTRCON - Initial/Continuing Calibration Verification

Solution

CSFNLAB/CSFNLAB2 - Laboratory Control Sample

RSQXXXXX - Method Blank

KXIFBPX - Method Blank Spike

RSXXXXXX - Sample

KSIFBPX - Matrix Spike
QSXXXXXX - Duplicate Sample

#### LABELLING CODES FOR MERCURY ANALYSIS

QC-EPA - Initial Calibration Verification Solution

BLK - Blank

CONTROL - Continuing Calibration Verification Solution

QXXX -1,2 - Method Blank in Duplicate

-A1 - Method Blank Spike XXXXXX-1,2- Sample in Duplicate

-Al - Matrix Spike

### KEYS TO ETC REPORTING

ND - Concentration Below IDL

BMDL - Concentration Greater than IDL but less than MDL

### CLP DATA QUALIFIERS

- E Indicates the reported value is estimated due to the presence of interference.
- S Indicates the reported value was determined by Method of Standard Additions (MSA).
- N Indicated spiked sample recovery is not within control limits.
- Indicates duplicate analysis is not within control limits.



For reporting results to the USEPA, the following contract specific qualifiers are to be used. The seven qualifiers defined below are not subject to modification by the laboratory. Up to five qualifiers may be reported on Form I for each compound.

The seven EPA-defined qualifiers to be used are as follows:

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in vator if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent meisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

(330 U) x df where D = 100 - 4 moisture D 100

and df - dilution factor

at 240 moiscure, D = 100-24 = 0.76

(330 U) x 10 - 4300 U rounded to the appropriate number of significant figures

For soil samples subjected to GPG clean-up procedures, the CRQL is also multiplied by 2, to account for the fast that only half of the extract is recovered. Note: If GPC procedures are amployed do not include the faster of 2 in the dilution factor reported on Form 1. Ag enter "Y" under GPG(Y/N).

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 ug/L, but a concentration of 1 ug/L is calculated, report it as 3J. The sample quantitation limit must be adjusted for both dilution and percent moisture as discussed for the U flag, so that if a sample with 24% moisture and a 1 to 10 dilution factor has a calculated concentration of 300 ug/L and a sample quantitation limit of 430 ug/kg, report the concentration as 300J on Form I.
- G This flag applies to posticide results where the identification has been confirmed by GC/MS. Single component posticides ≥10 ng/ul in the final extract shall be confirmed AR 500 | 34

3-27

Rev.9/88

BPA ...

B - This flag is used when the analyze is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and varns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.

- E This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to posticides/PCRs analyzed by GC/EC methods. If one or nore compounds have a response greater than full scale, the sample or extract must be diluted and re-enalysed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "X" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first enalysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Forms 1. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total mylenes, where three isomers are quantified as two peaks, the calibration range of each reak should be considered separately, e.g., a diluted analysis is not required for total xylenes unless the concentration of either peak separately exceeds 200 ug/L.
- D This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or entract is re-analyzed at a higher dilution factor, as in the "I" flag above, the "BL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that form I are flagged with the "D" flag.
- A This flag indicates that a TIG is a suspected aldel-condensation product.
- X Other specific flags may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the Case Herrative. Begin by using "X". If more than one flag is required, use "Y" and "X", as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might sembine the "A", "B", and "D" flags for some sample.

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are also detected in the sample.

If analyses at two different dilution factors are required (see Exhibit D), follow the data reporting instructions given in Exhibit D and with the "D" and "E" flags above.

AR500135

### SELECT EPA STANDARDS

		Contaminant s (ppb)	Health Advisories (ppb)
Compound	Current	Proposed	
Antimony		10/5	
Barium	1,000	2,000	
Arsenic	50		
Copper	1,000	1,300	
Sodium			20,000
Zinc	5,000		
Iron	300	****	
Lead	50	5	
Boron			3150*, 620
Trichloroethene (TCE)	5		318*

<sup>\*</sup> Removal Action Level

### EPA REGION III

### BORON FACT SHEET

### What is Boron?

Boron is an element which may occur naturally in the form of borax or boric acid. Pure boron is a solid material ranging from reddish-brown to black under normal conditions. It does not occur in nature.

### Sources of Boron:

Boron compounds are commonly found in most rocks and soils. Therefore, measurable amounts of boron often occur naturally in surface waters (i.e. lakes and streams) and in ground water. Boron may also be introduced to natural water systems as the result of human activity. Waste flows from mineral and coal refining operations bear whatever boron is contained in the parent rock. Additionally, poorly managed municipal sludge or industrial waste disposal practices can release boron to ground and surface waters. Boron is a component of a great many industrial processes including glass manufacture, metal production, and wood and leather preserving.

The primary source of boron available for human intake appears to be food products. Since the levels of boron found in drinking water are relatively low compared to those found in food, the contribution of drinking water to dietary boron intake is considered insignificant in most cases.

### Health Effects of Boron:

Boron is not associated with a high level of toxicity. However, there is ample evidence showing that short-term ingestion of high levels of boron can result in nausea, stressed liver and central nervous system functions, and even death. Full recovery from the non-lethal health effects of short-term exposure appears to be normal. Dermal exposure to boron and its compounds may result in irritation, however, no evidence exists showing any systemic effects resulting from adsorption through the skin.

Long term exposure to boron via ingestion has been linked to occurrence of seizures and neurological damage in human infants. In animal studies, chronic boron ingestion has been tentatively associated with damage to internal organs such as the kidney, spleen, liver and testes.

Currently, there is no scientific evidence to suggest the 50 for to boron causes cancer. Therefore, EPA is basing its

 $\frac{J_{C^{+}}}{L_{+,\Sigma}}$ 

the toxicity of boron in drinking water on the occurrence of testicular atrophy in laboratory animals, the adverse health effect that occurs at the lowest dosage.

#### EPA Standards:

EPA has calculated a lifetime health advisory for boron in drinking water of 620 parts per billion (see below). The lifetime health advisory level represents the highest concentration of a contaminant in drinking water which is considered to be protective of human health over a lifetime of exposure. While a health advisory level is not an enforceable regulation, it is considered to be an applicable guideline for drinking water quality.

EPA has also calculated a removal action level for boron in drinking water at 3,150 parts per billion (see below). Removal action levels are used as criteria for the initiation of emergency removal actions. Such actions are intended to prevent exposure to high levels of contamination which could cause adverse health effects over a short period of time.

One part per billion (ppb) represents one part of contaminant, by weight, for every billion parts of water. One ppb is also equivalent to one microgram per liter (ug/l), which is another common method of notation used in water analysis. At the ppb level, most chemicals are not detectable by taste or smell. In order to comprehend the magnitude of one part per billion, consider that it is roughly equivalent to one second in 32 years.

#### What Can You Do ?

If you are concerned about boron in your drinking water, the first action you should take is to seek assistance from your state or local health officials. The health officials may advise you to have your water retested to verify the existing level of boron contamination. Depending on your sample results, you may wish to consider treating your water to remove boron. Various treatment processes are available that can be installed at the point where water enters your home (Point-of-Entry) or at the faucet (Point-of-Use).

For more information on home treatment devices, write for Region III's free drinking water information guide titled "Home Water Treatment Units" at:

Environmental Protection Agency Region III Drinking Water Section (3WM41) 841 Chestnut Street Philadelphia, PA 19107.

AR 500 138

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

### 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

2015 Creek Way Lansdale, Pennsylvania 19446

Re: Analysis of the Home Well Located at 604 Quarry Road during the Remedial Investigation of the Salford Quarry Site

Samples from your home well located at 604 Quarry Road, Harleysville, Pennsylvania, were collected on July 18, September 5, and September 10-17, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION RANGE

Boron

14,200 - 18,300 parts per billion

According to currently acceptable EPA standards, the other substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main These are called removal and remedial actions. components. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

### Ξ

### VOLATILE GREALICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

63688

Lab Name: NET

Contract:

TPA SAMPLE NO.

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

**DRAFT** 

Sample wt/vol:

5.0 (g/mL) ML

Lab File ID: E4422

Level:

(low/med) LOW

Date Received: 7/18/31

Moisture: not dec. 100.

Date Analyzed: 7/22/91

Lolumn: (pack/cap) PACK

Dilution Factor:

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	, <del>-</del> , <del>-</del> , -			
CAS NUMBER	COMPOUND NAME	RT I		
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#### 18 VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 69688

Lao Name: NET

Contract:

Lab Code: NET Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E4422

Level: (low/med) LOW

Date Received: 7/18/91

x Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.88

DRAFT

		CONCENTRA	ATION U	NITS:		
CAS NO.	COMPOUND	(ug/L or	ug/Kg)	UG/L	Q	
1			1	<del></del>	1	<sub> </sub>
1 74-87	-3Chloromethane		I	10.	IU	-
1 74-83	-9Bromomethane		1	10.	١u	1
1 75-01	-4Vinyl Chloride		1	10.	IU	i
1 75-00	-3Chloroethane		!	10.	IU	1
1 75-09	1-2Methylene Chlo	ride	1	5.	10	į
1 67-64	-1Acetone		<u></u> ı	10.	10	
1 75-15	-1Acetone -0Carbon Disulfic	de		5.	10	į
1 75-35	-41,1-Dichloroet	hene	}	5.	10	1
1 75-34	-31,1-Dichloroet	hane	1	5.	ΙU	1
1 540-59	-81, 2-Dichloroet	hene (total)	<u> </u>	5.	IU	!
1 67-66	-3Chloroform_ -21, 2-Dichloroet		<u>_</u> ı	5.	(U	(
1 107-06	-21, 2-Dichloroet	hane	<u></u> 1	5.	IJ	1
! 78-93	-32-Butanone		<u></u> ı	10.	ΙU	ı
1 71-55	-32-Butanone -61,1,1-Trichlore	oethane	<u></u> 1	5.	IU	1
1 56-23	-5Carbon Tetrach	loride	!	5.	IU	(
1 108-05	-4Vinyl Acetate		<u></u> ı	10.	IU	i
1 75-27	-4Bromodichlorom	ethane	1	5.	10	1
1 78-87	-51,2-Dichloropr	opane	<u></u> 1	5.	ΙU	
110061-01	-5cis-1, 3-Dichlor	ropropene _	1	5.	וט	
1 79-01	-6Trichlorogthen	•	I	5.	IU	1
1 124-48	-1Dibromochlorom	ethane	1	5.	١U	1
1 79-00	-51,1,2-Trichlor	oethane	<u></u> ı	5.	IU	1
I 71-43	-2Benzene		1	5.	IU	1
110061-02	-6Trans-1, 3-Dich	loropropene	,	5.	IU	•
1 75-25	-2Bromoform		1	5.	10	1
1 108-10	-14-Methv1-2-Den	tanone	1	10.	ΙU	1
1 591-78	-62-Hexanone		<u></u> ı	10.	ΙÜ	. 1
1 127-18	-4Tetrachloroeth	ene	<u></u> ı	5.	IU	Ī
	-51, 1, 2, 2-Tetraci			5.	10	1
	-3Toluene			5.	IU	•
1 108-90	-7Chlorobenzene		,	5.	ΙÜ	ĺ
1 100-41	-4Ethylbenzene		]	5.	IU	Ì
100-42	-5Styrene		<sub> </sub>	5.	ΙŪ	,
1 1330-20	-7Xylene (total)		i	5.	iu	ĺ
1	g carra crayant,		i		1	i

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

PA SAMPLE NO. 63688

ab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

atrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol:

1000.0 (g/mL) ML

Lab File ID: A9217

revel:

(low/med) LOW

Date Received: 7/18/91

g Moisture: not dec. 100.

dec.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup:

(Y/N) N

pH: . 0 Dilution Factor:

DRAFT

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L on ug/Kg) UG/L Q 99-09-2----3-Nitroaniling\_\_\_\_ 50. 10 83-32-9----Acenaphthene\_ 10. 10 50. 51-28-5----2,4-Dinitrophenol \_ IU 100-02-7----4-Nitrophenol \_\_\_\_ 50. ΙU 132-64-9-----Dibenzofuran\_ 10. IU 121-14-2----2, 4-Dinitrotoluene\_ IU 10. 84-66-2----Diethylphthalate\_\_ IU 10. 1 7005-72-3----4-Chlorophenyl-phenylether\_ 10. IU 86-73-7----Fluorene IU 10. 100-01-6----4-Nitroaniline\_\_\_\_ 50. IU 534-52-1----4,6-Dinitro-2-methylphenol\_ 50. IJ 86-30-6----N-Nitrosodiphenylamine (1)\_\_1 lU 10. 101-55-3----4-Bromophenyl-phenylether \_\_\_I 10. IU 118-74-1----Hexachlorobenzene 10. 10 87-86-5----Pentachlorophenol 50. lu 85-01-8-----Phenanthrene\_\_\_\_ 10. 14 120-12-7----Anthracene\_ 111 10. 84-74-2----Di-n-butylphthalate \_\_\_ IU 10. 206-44-0----Fluoranthene\_\_\_\_ 10. 10 129-00-0-----Pyrene 10. IU 85-68-7----Butylbenzylphthalate\_ 10. ΤU 91-94-1----3, 3'-Dichlorobenzidine\_\_ 20. IU 56-55-3----Benzo(a)anthracene\_\_\_\_ 10. IU 218-01-9----Chrysene\_ 10. 10 117-81-7-----bis(2-Ethylhexyl)phthalate\_ 10. IU 117-84-0-----Di-n-octylphthalate IU 10. 205-99-2----Benzo(b)fluoranthene\_\_ 10. IU

(1) - Cannot be separated from diphenylamine

207-08-9----Benzo(k)fluoranthene\_\_\_

193-39-5-----Indeno(1, 2, 3-cd) pyrene\_\_

53-70-3-----Dibenz(a,h)anthracene \_

191-24-2-----Benzo(g, h, i)perylene\_\_

50-32-8-----Benzo(a) pyrene\_

aR500143

IU

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10

10

IU

10.

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10.

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10.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

APR SAMPLE NO.

69688

Lab Name: NET

Contract:

Lab Code: NET Case No.: SALFORD SAS No.:

SDG No.: 69583

Matrix: (soil/water) WATER

% Moisture: not dec. 100.

Lab Sample ID:

0.

Sample wt/vol: 1000.0 (g/mL) ML

dec.

Lab File ID: A9217

Level: (low/med) LOW

Date Received: 7/18/91

Date Extracted: 7/13/91

Extraction: (SepF/Cont/Sonc) CONT

Date Amalyzed: 7/27/91

DRAFT

GPC Cleanup: (Y/N) N pH:

. 0

Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

	<u> </u>	
1 400 00 0	1	!
1 108-95-2Phenol	10.	10
1 111-44-4bis(2-Chloroethyl)ether		IU
1 95-57-82-Chlorophenol	1 10.	IU
! 541-73-11, 3-Dichlorobenzene		IU
1 106-46-71, 4-Dichlorobenzene	10.	IU
1 100-51-6Benzyl alcohol		ıu
1 95-50-11,2-Dichlorobenzene	1 10.	10
! 95-48-72-Methylphenol	1 10.	ıu
139638-32-9bis(2-Chloroisopropyl)eth		ıu
106-44-54-Methylphenol	1 10.	IU
621-64-7N-Nitroso-di-n-propylamir	ne! 10.	IU
67-72-1Hexachloroethane	l 10.	IU
98-95-3Nitrobenzene	I 10.	IU
i 78-59-1Isophorone	1 10.	ŧυ
88-75-52-Nitrophenol	10.	IU
1 105-67-92,4-Dimethylphenol	i 10.	เบ
1 65-85-0Benzoic acid		ΙU
111-91-1bis(2-Chloroethoxy)methan	ne 10.	וט
120-83-22, 4-Dichlorophenol	10.	IU
! 120-82-11, 2, 4-Trichlorobenzene	10.	1 Ū
1 91-20-3Naphthalene		ΙÜ
1 106-47-84-Chloroaniline	1 10.	เบ
87-68-3Hexachlorobutadiene	10.	IU
1 59-50-74-Chloro-3-methylphenol		IU.
1 31-57-62-Methylnaphthalene		เบ
1 77-47-4Hexachlorocyclopentadiene	10.	IU
	10.	iŭ
95-95-42, 4, 5-Trichlorophenol		iu
31-58-72-Chloronaphthalene	10.	iu
! 88-74-42-Nitroaniline		iu
1 131-11-3Dimethylphthalate		וט
! 208-96-8Acenaphthylene	10.	וט
606-20-22, 6-Dinitrotoluene		10
. ooo-co-ca-ca-ca-ca, 8-Dinithotoliane	;	10

AR500144

# **CRAFT**

### 1D PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLEDED33

LESTICINE OKANATOS WANT	1919 DWIM SUEE!		
Lab Name: <u>CAMBRG</u>	_ Contract: <u>EN</u>	VIRON	DO15GW01
Lab Code: CAMBRG Case No.: FD41	4B SAS No.:	SDC	No. :
Matrix: (soil/water) WATER	Lab	Sample ID:	0565-12613
Sample wt/vol: 1000 (g/mL)	ML Lab	File ID:	
Level: (low/med) LOW	· Dat	e Received:	07/18/91
% Moisture: not dec dec.	Dat	e Extracted:	07/23/91
Extraction: (SepF/Cont/Sonc)	SEPF Dat	e Analyzed:	08/03/91
GPC Cleanup: (Y/N) N pH:	<u>6.0</u> Dil	ution Factor	1 00
CAS NO. COMPOUND		TION UNITS: ug/kg) <u>ug/l</u>	. O
: 319-84-6alpha-BHC		: 0	. 05010
: 319-85-7beta-BHC			. 05010
: 319-86-8delta-BHC		: 0	`050!U
: 58-89-9Lindane		. 1 0	. 05010
: 76-44-8Heptachlor_			050 LU
: 309-00-2Aldrin		1 0	. 05010
: 1024-57-3Heptachlor	epoxide	. 0	.05010
: 959-98-8Endosulfan	I	1 0	. 05010
1 60-57-1Dieldrin			0. 10 U :
: 72-55-94,4'-DDE	_	1	0. 10:0
: 72-20-8Endrin		;	0. 10 l l
: 33213-65-9Endosulfan	I I	•	0. 10 U :
1 72-54-84, 4'-DDD		<b></b> !	0. 101U
1031-07-8Endosulfan	sulfate	<u></u> !	0. 10 U
: 50-29-34, 4'-DDT			0. 10!U
: 72-43-5Methoxychlo	<u></u>	<b></b> !	o. 501U
1 53494-70-5Endrin keto	``	<del></del> !	0.1010
5103-71-9alpha-Chlor	14ne	<del></del> :	0. 5010
: 5103-74-2gamma-Chlor	##n#	<del></del> :	0. 5010
: 8001-35-2Toxaphene		<b></b> !	1.0(0
12674-11-2Aroclor-101	• •	<b>i</b>	0. 5010
11104-28-2Aroclor-122	<u> </u>	<del></del> :	Q. 501U
11141-16-5Aroclor-123	<u> </u>	<b></b> :	0.50:0
53469-21-9Aroclor-124	<u></u>	<b></b> :	0. 50 10
12672-29-6Aroclor-124		<del></del> -	0.5010
: 11097-49-1496-1(96	<b>5</b>	•	1 0111

AR500145



SEMIVOLATILE ORGANI ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

69688

Lab Name: NET

Contract:

EP9 SAMPLE NO.

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Number TICs found:

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9217

Level: (low/med) LOW

Date Received: 7/18/91

x Moisture: not dec. 100. dec.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N

pH: .0

Dilution Factor: 1.00

DRAFT

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

S NUMBER	COMPOUND NAME	* '*'	ST. CONC.	
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FORM I SV-TIC

U.S. EPA - CLP EPA SAMPLE NO. INORGANIC ANALYSIS DATA SHEET D015GW02 Lab Name: ETC CORP. Contract: Lab Code: Case No.: SAS No.: SDG No .: M7442 Matrix (soil/water): WATER Lab Sample ID: CA8561 LOW Date Received: 09/13/91 Level (low/med): % Solids: 0 Concentration Units (ug/L or mg/kg dry weight): ug/L | Analyte | Concentration | C | Q CAS No. |7429-90-5 |Aluminum\_ |7440-36-0 |Antimony\_| |7440-38-2 |Arsenic |7440-39-3 |Barium |7440-41-7 |Beryllium| |7440-43-9 |Cadmium 7440-70-2 |Calcium |7440-47-3 |Chromium |7440-48-4 |Cobalt |7440-50-8 |Copper\_\_ |7439-89-6 |Iron 2.00 7439-92-1 |Lead |7439-95-4 |Magnesium| |7439-96-5 |Manganese| 7439-97-6 |Mercury\_ 7440-02-0 | Mickel |7440-09-7 |Potassium| | 7782-49-4 | Selenium\_| |7440-22-4 |Silver |7440-23-5 |Sodium 7440-28-0 | Thallium 17440-62-2 | Vanadium 7440-66-6 | Zine

Color Before:	Charles	Clarity Before:	Can	Texture:	
Color After:	Clarke	Clarity After:	Clear	Artifacts:	
Comments:					
		·			

Cyanide

FORM I - IN

3/10

AR5090147

DRAFT

#### U.S. EPA - CLP

### INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

69688

Lab Name: NET ATLANTIC THOROFARE DI Contract:

ab Code: NET Case No.: SAS No.: SALFORD SDG No.: 69683

Matrix (soil/water): WATER

Lab Sample ID: 23180-068

Level (low/med): LOW

Date Received: 07/18/91

Solids:

0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30.00	ָּט ו		-   P
7440-36-0	Antimony	20.00	В		P
7440-38-2	Arsenic	2.00	U	W	F
7440-39-3	Barium	68.00	B		IP !
7440-41-7	Beryllium	2.00	ן ט ן		P
7440-41-7	Cadmium	2.00	U		P
7440-70-2	Calcium	45600.00			P
7440-47-3	Chromium	3.00	ן ט		12 1
7440-48-4	Cobalt	5.00	ן ט		P
7440-50-8	Copper	15.00	B		P
7439-89-6	Iron	11.00	ן ט ן	!	P
7439-92-1	Lead	3.00	ן ט		F
7439-95-4	Magnesium	17600.00			P
7439-96-5	Manganese	2.00	ן ט ן		1P [
7439-97-6	Mercury	0.20	ן ט	ı	CAI
7440-02-0	•	6.00	ן ט ן		P
	Potassium	1290.00			P
7782-49-2	•	3.00	ן ט		F
7440-22-4	•	4.00		!	P
7440-23-5	•	25800.00			P
7440-28-0		3.00			F
7440-62-2	•	4.00			P
7440-66-6	Zinc	20.00			P
	Boron	17100.00			P
	Cyanide	10.00	וטו	!	ICI

Color Before:

Clarity Before:

Texture:

color After:

Clarity After:

Artifacts:

omments:

AR500148

826B-D015-GW01

### BIOSPHERICS INCORPORATED

### TEM ASSESTOS IN VATER ANALYSIS RESULTS

Client:	v.s.	Environmental	Protection	Agency
	• • • •			

Sies Order #: 9107129-07

Project ID: SASE 6350-C-01

Client ID: 6350-C-7

DRAFT

Volume Sampled (ml) 1000		
Volume Filtered (ml) 250		
Filter Type_HCE		
Pilter Area (m²) 962		
Pilter Fore Size (um) <u>0.45</u>		
Average Grid Opening Area (502) 0.0115		1
# Grid Openings Analyzed 10	•	
Total Grid Area Amelyzod (Ref) 0.2300		
Grid Lot # 10422		
Detection Limit (MPL) 0.02		
Total Number of Asbestos Fibers (MFL)_H/A		
Chrysotile Fibers (MFL)_M/A		
Amphibole Fibers (MFL)_H/A		
Fiber Length Distribution (Microns)_B/A	•	•
Fiber Width Distribution (microns)_I/A		
Aspect Ratio Distribution I/A	•	•
Mean Mass per Fiber (ug) H/A		
Mass Concentration (ug/L) M/A		
Comments: To asheates fibers detected.		
		<del></del>



princeton testing laboratory inc.

P.O. Box 3108 3490 U.S. Route 1 Princeton, NJ 08543-3102 (609) 452-9050 FAX (609) 452-0347

Report Date: 09/11/91 Job Number: 9106225-001GW Date Received: 09/06/91

Roy F. Weston, Inc. 5 Underwood Court Delran, New Jersey 08075 Attention: Marien Murphy

Analyses

Sample I.D.: 31 Matthews Well, 32 McKnight Well 33 Johnson Well

Boron, mg/l Lead by GFAA, mg/l

17.8 4.005 ·

THE PERSON OF THE PROPERTY OF THE PERSON OF

14.3

18.3 <.005

~ 3x ector bugs

Analyses

Sample I.D.: 24 Maker

Vell.

Boron, mg/l Lead by GFAA, mg/l

<.05 <.005

AR500150

For inquiries call us at (609) 452-9050 and ask for our Customer Service Departmen

MC - Contract Required Debection Limit oilution factor -Veredica į Cale Chronius poton \$ 1 m SE IVET Spine of All and run Ĩ Î -70:000 tun į Amp. and Page lu Co'.clus Ş Patricking. -111Am 1 14 · 15 Lecoties avor 20300 [5:62] 18300 Matthews [ 6.46.7 251 159 11.6 158 9700 11.3 13:41 1:0 0

DRAFT

BALISONS RETAN (Mg/L)

DATA SUMMARY FORM: IN ORGANICS

石能

10 1. 657/C sampling Buto(s): 17- 9-91

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WARRY

Due to dilution, emple quantitation limit fractional. See dilution table fof Specifies.

\*Agtion Level Exists

revised 07/90

BEE HAMMATIVE FOR COSE DEFINITIONS

WESTEN

1

#### TABLE 2

### GLOSSARY OF DATA QUALIFIER CODES (INORGANIC)

## <u>CODES RELATED TO IDENTIFICATION</u> (confidence concerning presence or absence of analytes):

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

### (NO CODE) = Confirmed identification.

- B = Not detected substantially above the level reported in laboratory or field blanks.
- R = Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

# CODES RELATED TO QUANTITATION (can be used for both positive results and sample quantitation limits):

- J = Analyte Present. Reported value may not be accurate or precise.
- K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- [] = Analyte present. As values approach the IDL the quantitation may not be accurate.
- UJ = Not detected, quantitation limit may be inaccurate or imprecise.
- UL = Not detected, quantitation limit is probably higher.

#### OTHER CODES

// Q = No analytical result.

AR500152

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 841 Chestnut Building

841 Chestnut Building
Philadelphia, Pennsylvania 19107

Office of Superfund
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

215 Shady Nook Hill Road Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear

Samples from your home well were collected on July 18, and September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminants listed below were detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

#### CONTAMINANT

#### CONCENTRATION RANGE

Boron

12,700 - 24,700 parts per billion

According to currently acceptable EPA standards, the other substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCIA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is campain 153 referred to as Superfund.

Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

## IA VOLATILE ORGANICS ANALYSIS DATA SHEET

63755

EFH SAMPLE NO.

Lab Name: NET

Contract:

ab Code: NET Case No.: SALFORD SAS No.: SDG No.: 69797

Matrix: (Soil/Water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E4425

Level: (low/med) LOW

Date Received: 7/19/91 DRAFT

% Moisture: not dec. 100.

Date Amalyzed: 7/22/91

column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q	
		1		1	_
74-87-3	Chloromethane	!	10.	10	l
74-83-9	Bromomethane		10.		ļ
75-01-4	Vinyl Chloride		10.	IU	i
	Chloroethane_	<u> </u>	10.	IU	
	Methylene Chlo	rid <b>e</b>	5.	ΙU	
67-64-1	Acetone	I	10.	IU	
	Carbon Disulfic		5.	ıu	
	1,1-Dichloroet		5.	IU	
75-34-3	1,1-Dichloroet	hanei	5.	IU	
	1,2-Dichloroet	hene (total)	5.	IU	
	Chloroform	l	5.	IU	
107-06-2	1,2-Dichloroet	hane!	5.	IU	
78-93-3			10.	10	
71-55-6	1,1,1-Trichlor	pethane I	5.	18	
56-23-5	Carbon Tetrach	loride l	5.	ΙÜ	
108-05-4	Vinyl Acetate		10.	١Ū	
75-27-4	Bromodichlorom	ethane i	5.	ΙŪ	
78-87-5	1,2-Dichloropr	opane	5.	ίŪ	
8861-81-5	cis-1,3-Dichlo	rogragene	5.	iu	
79-01-6	Trichloroethen		5.	iu	
124-48-1	Dibromochlorom	ethane I	5.	iŭ	
	1,1,2-Trichlor		5. 5.	ΙÜ	
		· · —	5.	ĪŪ	
0061-02-6	Benzene Trans-1 <u>3</u> -Dich	1	5.	IU	
	Bronoform	Tot obtobere;	5.	10	
				_	
100-10-1	4-Methyl-2-Pen	tanone	10.	IU	
	2-Hexanone		10.	10	
	Tetrachloroeth		5.	IU	
	1, 1, 2, 2-Tetrac		5.	IÜ	
	Toluene		5.	IU	
	Chlorobenzene		5.	IU	
	Ethylbenzene		5.	IU	
	Styrene		5.	IU	
1330-20-7	Xylene (total)		5.	ΙŲ	

### VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: SALFORD SAS No.:

TENTATIVELY IDENTIFIED COMPOUNDS

63755	

TA SAMALE NO.

ab Name: NET

Lab Code: NET

Contract:

SDG No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4426

DRAFT

(low/med) LOW

Date Received: 7/19/91

Moisture: not dec. 100.

Date Analyzed: 7/22/31

Dilution Factor: 1.00

Lcolumn: (pack/cap) PACK

Number TICs found: 0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME		EST. CONC.	
1	1322-2333-232-232-232-232-232-232-232-23	, =====; 		3332 <u>2</u> 
2		I		
3		·		
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131		·		
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261 <u></u> 1		1		,
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AR500156

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: NET

Contract:

CONTRACT

Lab Code: NET

Case No. : SALFORD SAS No. :

SDS No. 1 69797

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 1080.9

1000.8 (g/mL) ML

Lab File ID: F5759

Level: (low/med) LOW

-

Date Received: 7/19/91

x Moisture: not dec. 188.

dec. B.

Date Extracted: 7/23/91

Extraction: (SepF/Cont/Sone) CONT

Date Analyzed: 7/27/91

GPC Cleanups

(Y/N) N

pH: . @

Dilution Factor:

1.00

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

		•	
188-95-2	Phenel	18.	10
111-44-4	Phenol  bis(2-Chloroethyl)ether!	18.	iŭ
95-57-4	2-Chlorophenoli	10.	עו
541-73-1	1, 3-Dichlorobenzene	19.	iu
	1, 4-Dichlorobenzane	t <b>a.</b>	iū
	Benzyl alcohol	10.	111
	1, 2-Dichlorobenzene	10.	เบ้
	2-Hethylphenoll	18.	iŭ
10-10-1	bis(2-Chloroisopropyl)ether	1 <b>0.</b>	i Li
78-36-36-7	4-Methylphenol	10.	וט
691-64-7		10.	10
	Hexachloroethane	i 🕰	10
			18
34-30-3	Nitrobenzene	18.	
\8-23-1	Isophorone	18.	10
		10.	เก
	2, 4-Dimethylphenel	10.	lu
	Benzoic acid	<b>50.</b>	IU
	bis (2-Chlorosthoxy) sethene!	10.	IU
	2,4-DichlorophenolI	19.	IU
	1, 2, 4-Trichlorobenzene	19.	IU
	NaphthaleneI	19.	łU
		18.	IU
	Hexachlorobutadiene	10.	IU
	4-Chlore-3-methylphenol	10.	IU
	2-MethylnaphtheleneI	10.	IU
	Hexachlorocyelopentadienei	10.	IU
	2,4,6-Trichlorophenol	10.	IŲ
95-95-4	2,4,5-Trichlerophenol	50,	וט
91-58-7		10.	10
88-74-4		50.	10
131-11-3	Dimethylphthelate	10.	10
	Acenaphthylene	19.	lu
	2. 6-Dinitrotolusme	10.	IU

AR500157

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	EPA	SAMPLE	NO.
1			
1	69	755	ı
1			!

Lab Name: NET

Contracts

Lab Code: NET

Case No. : SALFORD SAS No. :

508 No. : 59797

Matrixs (soil/water) WATER

Lab Sample ID:

Samule wt/vol:

1888.0 (g/mL) ML

Lab File ID: F5759

**DRAFT** 

Levels (low/med) LOW

% Moisture: not dec. 188.

dec.

Date Received: 7/19/91

Extraction: (SepF/Cont/Sone) CONT

pHt

Date Extracted: 7/23/91 Date Analyzed: 7/27/91

GPC Cleanups

(Y/N) N

Dilution Factor:

1.00

Number TICs found:

CONCENTRATION UNITE: (ug/L or ug/Kg) US/L

		- dyngr		
CAS NUMBER	COMPOUND NAME	RT		
		-	•	•
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### SENIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLI NO. 69755

Lab Names NET

Contracts

Lab Codes NET

Case No.: SALFORD SAS No.:

9D8 No.: 69797

Matrix: (soil/water) HATER

Lab Sample ID:

Sample wt/vol:

1888.8 (g/mL) ML

Lab File ID: F3759

DRAFT

Level: (low/med) LOW

dee.

Date Received: 7/19/91

x Moistures not dec. 198.

Date Extracted: 7/23/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanups (Y/N) N

pHt

Dilution Factor:

CAS NO.	COMPOUND	CONCENTRATION U	2

99-09-2	3-Nitroentline	50.	IU
4J-32-9	AcenapiitheneI	10.	טו
51-25-5	2, 4-Dinitrophenol	50.	IU
100-02-7	4-Nitrophenol	58.	IU
132-64-9	Dibenzofuran	10,	IU
121-14-6	2, 4-Dinitrotoluene	10.	HU
84-65-2	Diethylphthalate	10.	I U
7 <b>005-72-3</b>	4-Chlorophenyl-phenyletheri	10.	ľ
	Fluorene	10.	10
	4-Nitramiline	50.	IU
534-52-1	4, 6-Dinitro-2-methylphenol	<del>50</del> .	មេ
16-38-6	N-Nitrosodiphenylamine (1)	10.	IU
	4-Browophenyl-phenyletherl	10.	IU
	HexachlorobenzeneI	10.	IU
	Pentachlorophenol	50.	IU
65-81- <b>8</b> -	Phenanthrene	10.	IU
	Anthreene1	10.	IU
84-74-2	Di-n-butylphthelate	10.	Iñ
206-44-9	Fluorentheno	10.	IÜ
127-06-6	Pyrene!	19.	IU
	Butylbenzylphthelatei	19.	IU
	3, 3°-DichlorobenzidineI	29.	łU
	Benzo (a) anthregenei	10.	IU
514-61-3-	Chrysene	10.	IU
117-81-7	bis(2-Ethylhexyl)phthelate;	10.	IU.
117-84-0	Di-n-octylphthelate	10.	10
562-33-5	Benzo (b) fluoranthene}	10.	10
207-08-9	Benzo (k) fluoranthene	10.	IU
50-32-6	Benzo (a) pyrene	10.	ıu
	Indeno (1, 2, 3-qd) pyrene	10.	IU
	Dibens (a, h) anthrecene!	10.	IU
171-24-2	Benzo (g, h, i) perylana	10.	IU

## **URAFT**

EPA SAMPLE RJ3

### 1D PESTICIDE ORGANICS ANALYSIS DATA SHEET

	Lab Name: CAMBRG Contract: ENVIRON	1 1 D018GW01
	Lab Marie.	'
	Lab Code: CAMBRG Case No.: FD414B SAS No.: SDG	No.:
	Matrix: (soil/water) WATER Lab Sample ID:	0565-12620
	Sample wt/vol: 1000 (g/mL) ML Lab File ID:	
	Level: (low/med) <u>LOW</u> Date Received:	07/19/91
	# Moisture: not dec dec Date Extracted	07/23/91
4	Extraction. (SepF/Cont/Sonc) SEPF Date Analyzed	08/04/91
	GPO Cleanup: (Y/N) N pH. 6.0 Dilution Factor	r: <u>1.00</u>
_	CONCENTRATION UNITS:	
	CAS NO. COMPOUND (ug/L or ug/kg) UG/L	<u> </u>
_	; ; 319-84-6alpha-BHC;	0. 050 LU
	; 319-85-7beta-8HC _	0: 050:U :
	; 319-86-8delta-BHC	0. 0 <b>50 i</b> U i
	: 58-89-9Lindane	0. 0501U 1
	76-44-8Heptachlor	0. 050 tu :
	309-00-2Aldrin	0. 0501U 1
	: 1024-57-3Heptachlor eposide:	0. 050 LU
	959-98-8Endosulfan I	0.05010
	60-57-1Dieldrin	0. 10 lU :
_		0. 1010
_	33213-65-9Endosulfan II	0. 101U   0. 101U
	: 72-54-84, 4'-DDD:	0. 101U
	1031-07-8Endosulfan sulfate	0. 101U :
_	: 50-29-34, 4'-DDT	0.1010
	72-43-5Methoxychlor	0. 5010
	: 53494-70-5Endrin ketone!	0.1010
	: 5103-71-9alpha-Chlordane :	0.5010 . 1
	: 5103-74-2gamma-Chlordane:	0.501U ; 1
	8001-35-2Torachene	1 0:0
	: 12674-11-2Arocler-1016	0. 5010 1
	11104-28-2Aroclor-1221	G. 501U 1
	: 11141-16-5Aroclor-1232 :	0. 501U i
	53469-21-9Aroclor-1242	0. 5010 1
_	12672-29-6Aroclor-1248	0. 5010
	11097-69-1Areclor-1254	1.010
-	11096-82-5Aroclor-1260	1.0:0



1		U.S	. EPA - CLP			
		INORGANIC A	1 Analysis data s	SHEET	EPA	SAMPLE NO.
Lab Name: NET	ATLANTIC TH	OROFARE DI	Contract:		i i	69755
<del>-</del>					· ——	
.ab Code: NET	Ca	se No.:	SAS No.:	SALFORD	SDG	No.: 69683
atrix (soil/w	ater): WATE	R		Lab Samp	1e ID	: 23180-13S
evel (low/med	): LOW			Date Rec	eived	: 07/19/91
; Solids:	0.	0				
Con	centration	Units (ug/I	or mg/Kg dry	weight):	UG/L	DRAFT
	CAS No.	Analyte	Concentration	C   Q	M	
ſ	7429-90-5	Aluminum	30.00	ˈʊi	P	
	7440-36-0		27.00	В	P	
	17440-38-2	•	3.00	-	P	
	7440-39-3		218.00		P	
	7440-41-7	•			P   '	
	17440-41-7	•	2.00	•	IP	
	17440-70-2		42900.00		P	
Ĭ	17440-47-3	Chromium	3.00		P	
	17440-48-4	Cobalt	5.00		1P	
	17440-50-8	Copper	17.00		P	
	17439-89-6		11.00	•	IP	
	17439-92-1	Lead	3.00		F	
	17439-95-4	Magnesium			P	
	17439-96-5	Manganese		•	IP	
	7439-97-6  7440-02-0	Mercury  Nickel	0.20 6.00	-	CV	
	17440-09-7	Potassium			5	
	17782-49-2		3.00		12	
	7440-22-4	Silver	4.00		P	
	7440-23-5	Sodium	21300.00	•	IP I	•
	17440-28-0	Thallium	3.00			•
	7440-62-2	Venedium	4.00	•	P	
•	17440-66-6	Zinc	26.00	-	iP i	
<b>\</b>	1	Boron	12700.00		P	
	<u> </u>	Cyanide	10.00	וטן	ic i	
Color Before:	·	Clari	ty Before:		Text	are:
olor After:		Clari	ty After:		Arti	facts:
omments:						
826B-D018-G	W01 /				āR	500161
<b></b>	<u> </u>				7111	

EPA SAMPLE NO.

		INORGANIC	: Analysis data s	HEET		• .
Lab Name: ETC Lab Code:	-	Case No.:	Contrac SAS No.	• •	D018GW02	1
Matrix (soil/w	mter): WATI	ER		Lab Samol	• ID: CA8578	-
					15. 0.05),0	
Level (low/med	l): LOW		:	Date Rece	ived: 09/13/91	
% Solids:	0					
Con	centration	Units (ug	/L or mg/kg dry	weight):	ug/L	
	1	<del>-</del>	<del></del>	<del></del> -	<b>D</b> D	
	CAS No.	Analyte	Concentration C	Q H	DR	AFT
	7429-90-5	Aluminum	<del></del>  -	<b>}</b> }}		
		Antimony	¦			
	7440-38-2		¦			
	7440-39-3		} <del></del> }-	iii		
		Beryllius				
	7440-43-9					dig sa
	7440-70-2		<del></del>  -	iii		- W.
	7440-47-3	•	j <del></del> i	ii	•	
	7440-48-4		i <del></del> i - i			
	7440-50-8	1		iii	,	
	7439-89-6		j <del></del> i <del>-</del> -			
	7439-92-1		2.00			
	7439-95-4					
		Hanganese				
	7439-97-6					
	7440-02-0		<del></del>	ii		
	7440-09-7			ii		
	7782-49-4			ii		
	7440-22-4		·	ii		
	7440-23-5		-	ii		
	7440-28-0			i-i		
	7440-62-2			;;		
j	7440-66-6			——i—i		
		Cyenide_		—— <u>i</u> —i		
		Beron	24700.0	Pi		
Color Before:	Colorda	a Clari	ity Before: Ca	an Test	turo:	
			امد شد	•	<del></del>	
Color After:	Colore	d Clar	ity After: 6	an Art	Linesa:	
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	•				ЯQ(	รถการ

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

### 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

235 Fawn Drive Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the

Remedial Investigation of the Salford Quarry Site

Dear

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Boron

4,380 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. The other substance which was analyzed for, lead, was not detected in your well (please refer to the enclosed Sample Result Reports).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 19800163 (CERCLA) as amended under the Superfund Amendments and ARDUO163 Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund.

Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

	_	INCREANIC	Amalysis data sheet	
Lab Hame: ETC		ase No.:	Contract: SAS No.:	D028GW01
Matrix (soil/water): WATER Level (low/med): LOW		Lab Sample	D: CA8557	
	): LOW		Date 1909	ived: 09/13/91
🙎 Solide:	Q			
Con	centration	Units (ug,	/L or mg/kg dry weight):	ug/L
	ı <del></del>	·		DDVE
	CAS No.	Analyte	Concentration C Q M	DRAF
	7429-90-5	Aluminum	- - - - -	•
	7440-36-0			
	7440-38-2		ii-i-i-i	
	7440-39-3	Berium_		
	7440-41-7			
	17440-43-9			
	7440-70-2			
	7440-47-3			
	7440-48-4			
	7440-50-8		\\- -	
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	7439-92-1		2.00 U F	
	7439-95-4   7439-96-5		\ <del></del>  -  -	
	17439-97-6		\ <del></del>  -	
	7440-02-0			
	7440-09-7		{i-i-i-i-i-i-i	
	7782-49-4			
	7440-22-4			
	7440-23-5	Sodium		
	7440-28-0			
	7440-62-2			
	17440-66-6	: -		
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### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

## 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund SE Pennsylvania Remedial Section Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

730 Cressman Road Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear 1

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Boron

2,340 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. The other substance which was analyzed for, lead, was not detected in your well (please refer to the enclosed Sample Result Reports).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commenty referred to as Superfund.

Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-6983 or me at (215) 597-

Sincerely,

(Can The

Cesar Lee (3HW21) Remedial Project Manager SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

### INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP.

Lab Code:

Case No .:

Contract: SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8556

Level (low/med):

LOW

Date Received: 09/13/91

% Solids:

٥

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No. Analyte |Concentration|C| Q 7429-90-5 Aluminum 7440-36-0 |Antimony |7440-38-2 |Arsenic\_ |7440-39-3 |Barium 7440-41-7 | Beryllium 7440-43-9 [Cadmium |7440-70-2 |Calcium |7440-47-3 |Chromium 7440-48-4 |Cobalt |7440-50-8 |Copper 7439-89-6 Iron 2.00 7439-92-1 |Lead |7439-95-4 |Magnesium |7439-96-5 | Manganese 17439-97-6 | Mercury\_ 7440-02-0 | Nickel 7440-09-7 | Potassium |7782-49-4 |Selenium | |7440-22-4 |Bilver 7440-23-5 | Sodium 7440-28-0 Thallium 7440-62-2 | Vansdium 7440-66-6 | Zine Cyenide 2340,0

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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

## 841 Chestnut Building Philadeiphia, Pennsylvania 19107

Office of Superfund SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

203 Shady Nook Hill Road Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

#### Dear

Samples from your home well were collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and neither of the contaminants which were analyzed for, boron and lead, were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions.

Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

Analyte Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobelt Copper Iron Lead Magnesium Manganese	Concentra	De g dry we	ab Sample ate Rece eight):	le ID:	D027GW01  No.: H7442  CA8581  09/13/91
Analyte Aluminum Antimony Arsenic Barium Beryllium Cadmium Colcium Chromium Cobelt Copper Iron Lead Magnesium Manganese	Concentra	g dry we	eight):	eived:	09/13/91
Analyte Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobelt Copper Iron Lead Magnesium Manganese	Concentra	g dry we	Q M		
Analyte Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobelt Copper Iron Lead Magnesium Manganese	Concentra	tion C	Q N	ug/L	DRAF
Analyte Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobelt Copper Iron Lead Magnesium Manganese	Concentra	tion C	Q N	u <b>g/</b> L	DRAF
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobelt Copper Iron Lead Magnesium Manganese					DRAF
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese		2.00 0			
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese		2.00 0			
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese		2.00			
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese		2.00 0			
Cadmium Calcium Chromium Cobelt Copper Iron Lead Magnesium Manganese		2.00 0			
Calcium Chromium Chromium Cobalt Copper Iron Lead Magnesium Manganese		2.00 0			
Chromium Cobalt Copper Iron Lead Magnesium Manganese		2.00 0			
Cobalt Copper Iron Lead Magnesium Manganese		2.00 0			
Copper	il	2.00 0			
Iron Leed Magnesium Manganese	il	2.00			
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Potassium Selenium	'¦	;-;-;-			
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Sodium	·;	╼╼¦╼¦╼	╼╌╏╼╌╏		
Thallium	·ii	i-i-	ii		
Venedium -		i-i-	i_i		
Zine				ı	
Cyanide_	1				
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<sub>सद्भ</sub> ान्त्र ।		INORGANIC	1 : Analysis dat	ra sheet	EPA SAMPLE NO
Lab Name: El Lab Code:		Case No.:		tract: No.:	D027GW11 SDG No.: M7442
Matrix (soi)	l/water): WAT	SR .		Lab Sample	ID: CA8586
Level (low/m	ed): LOW			Date Recei	red: 09/13/91
% Solids:	0				
•	concentration	Units (ug	/L or mg/kg d	lry weight): u	ur/L
	1			<del></del>	•
•	CAS No.	Analyte	Concentratio	aC Q M	DRAFT
	7429-90-5	Aluminum	·	-{-}	
	7440-36-0		i —————		
	7440-38-2		i <u> </u>		•
	17440-39-3				
		Beryllium	ļ	_!_!!!	
	17440-43-9				
	7440-70-2  7440-47-3			- -	
	7440-48-4			╼╎╼╎╼╼╼╌╎╼╾╎	
	7440-50-8		<del></del>	~}~}}	
	7439-89-6		<del></del>	-i-iii	
	7439-92-1		2.0	6 0 T	
	17439-95-4	Megnesium		_i_iii	
	7439-96-5				
	7439-97-6				
	17440-02-0				• •
	17440-09-7		<del></del>	- -	•
	7782-49-4   7440-22-4			- -	
	7440-23-5			~}-}	
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	7440-66-6				
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### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund SE Pennsylvania Remedial Section Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

750 Cressman Road Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Boron

1,000 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. The other substance which was analyzed for, lead, was not detected.

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main 1950173 components. These are called removal and remedial actions.

Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

	Inorgabi	1 C analysis data sheet	EPA SAMPLE NO.
Lab Name: EI Lab Code:	C CORP.	Contract: SAS No.:	D021GW01
Matrix (soil	/water): WATER	Lab Sam	ple ID: CA8572
Level (low/m	ed): LOW	Date Re	ceived: 09/13/91
% Solids:	0		
d	oncentration Units (u	g/L or mg/kg dry weight)	DRAFT
	CAS No. Analyte	Concentration   C   Q   M	1
	7429-90-5 Aluminum	-{	-{
	7440-36-0 Antimony	-{	<b>-</b> ¦
	7440-38-2 Arsenic		-i
	7440-39-3  Barium_		<u>_</u> i
	7440-41-7  Berylliu	•!!_!!_	
	7440-43-9  Cadmium_  7440-70-2  Calcium	-!!!-	<u>-</u> ¦
	7440-70-2  Chromium	-{	-{
	7440-48-4   Cobelt	-{	-¦
	7440-50-8  Copper	-ii-ii-	<b>⁻i</b>
	7439-89-6  Iron		<u></u> į
	7439-92-1 Lead	2.00   U   W   F	7
	7439-95-4  Magnesiu		_!
	7439-96-5   Manganese	•!!!-	<u>-</u> !
	7439-97-6  Mercury_  7440-02-0  Wickel	-{	-{
	7440-09-7  Potassius	:{	<b>-</b> {
	7782-49-4   Selenium	<sup>-</sup> {{-{{{	-{
	7440-22-4  Silver_	•ii-ii-	<del>-</del> i
	7440-23-5  Sodium	i <u>i-</u> i-i-	<u> </u>
	7440-28-0  Thallium		
	7440-62-2   Vanadium	.	
	7440-66-6   Zine	-!!!-	
	Cyanide_	1000.0	
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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

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### 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

190 Fawn Drive Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear M

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and neither of the contaminants which were analyzed for, boron and lead, were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions.

AR500176

Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

		•	S. EPA - CLP		
		INORGANIC	1 Analysis data	SHEET	EPA SAMPLE NO.
Lab Name: ETC C Lab Code:	CORP.	Case No.:	Contr SAS N		D026GW01 
Matrix (soil/wa	ter): WATE	ER		Lab Sampl	• ID: CA8587
Level (low/med)	: LOW			Date Rece	ived: 09/13/91
% Solids:	0				
	7440-38-2 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1	Antimony  Argenic  Barium  Beryllium  Cadmium  Calcium  Chromium  Cobalt  Copper  Iron	2.00		DRAF

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|7440-09-7 |Potassium| |7782-49-4 |Selenium| 7440-22-4 |811ver\_ 7440-23-5 |Sodium 7440-28-0 |Thellium 7440-62-2 | Vanadium 7440-66-6 | Zine

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# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund SE Pennsylvania Remedial Section Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

200 Fawn Drive Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear

A sample from your name will was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Boron

13,500 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. The other substance which was analyzed for, lead, was not detected in your well (please refer to the enclosed Sample Result Report).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and 500 Peauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund.

Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

SE Pennsylvania Remedial Section

Enclosures: Sample Results Report

Summary of Select EPA Standards

Boron Fact Sheet

	1		
INORGANIC	ANALYSIS	DATA	SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP.

Lab Code:

Case Yo .:

Contract: SAS No.:

SDG No.: M7442

D025GW01

Matrix (soil/water): WATER

Lab Sample ID: CA8584

Level (low/med):

LOW

Date Received: 09/13/91

% Solids:

0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	¦	-	<b> </b> -	¦-
7440-36-0	Antimony		-		i-
7440-38-2	Arsenic_			i —	i —
7440-39-3	Barium	]		i —	ì–
7440-41-7	Beryllium				i-
7440-43-9					<u> </u>
7440-70-2	Calcium				i-
7440-47-3					i-
7440-48-4	Cobalt				i-
7440-50-8	Copper				i –
7439-89-6	Iron				i –
7439-92-1	Lead	2.00	đ		įŦ
7439-95-4	Magnesium				i
7439-96-5	Hanganese				
7439-97-6					i –
7440-02-0	Nickel				_
7440-09-7	Potassium				i –
7782-49-4	Selenium_				
7440-22-4	Silver_				
7440-23-5	Sodius				_
7440-28-0	Thallium		Ī		
7440-62-2	Vanedium		٦i		
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FORM I - IN

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# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

M1 201 Fawn Drive Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear Mr.

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Lead

161 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the other substance which was analyzed for and detected in your well, boron, (please refer to the enclosed Sample Result Reports) pose no threat to consumers. This constituent was either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

AR500182

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-4287.

Sincerely,

icon her

Cesar Lee (3HW21) Remedial Project Manager SE Pennsylvania Remedial Section

Sample Results Reports
Summary of Select EPA Standards
Boron Fact Sheet
Lead Fact Sheet

Drinking Water Contact

## INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP.

Lab Code:

Case No.:

Contract: SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8580

Level (low/med):

LOW

Date Received: 09/13/91

% Solids:

0

Concentration Units (ug/L or ag/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DRAF
7429-90-5	Aluminum	¦	¦-		 	
7440-36-0	Antimony		j-	i —	i —	
7440-38-2	Arsenic		į-	i —	i —	
7440-39-3	Berium		i T	i —		
7440-41-7	Beryllium		<b>i</b> –		i —	
7440-43-9	Cadmium		<b>i</b> -		i-	
7440-70-2	Calcium	i ————	i -		i i	
7440-47-3	Chromium		<b>i</b> -		i —	
7440-48-4			<b> </b>		i —	
7440-50-8	Copper		i-i		i—	
7439-89-6	Iron	ì — — — — — — — — — — — — — — — — — — —	i – i	i —		
7439-92-1		161.00	<b>i</b> - i	<b>—</b>	7	
7439-95-4		İ	<b>i</b> - i		ĺ	
7439-96-5			1			
7439-97-6		i	<b>i</b> - i			
7440-02-0			<b>i</b> -i			
7440-09-7	Potassium		i			
7782-49-4		i	<b>i</b> -i			
7440-22-4	Silver		i-i			
7440-23-5	Sodium		<b>i</b> - i			
7440-28-0		•	i Tì			
7440-62-2			ı-i			
7440-66-6			ıΞi			
-	Cyanide					]
	Berten	560.00	_		P	

Color After:	Clarity After:	can	Artifacts:	_
Comments:				
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FORM I - IN

3/90

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

## 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

740 Cressman Road Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear Mr.

A sample from your home well was collected on July 18, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and neither of the substances which were analyzed for, boron and lead, were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions All 500 185

Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

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Summary of Select EPA Standards

Boron Fact Sheet

		INORGANIC	AMALYSIS DATA SHE	er	EPA SAMPLE NO.
Lab Name: ETC Lab Code:		Case No.:	Contract: SAS No.:	s	D022GW01
Matrix (soil/	mater): WAITE	OR .	Lal	Sample ID	: CA8575
Level (low/med	i): Low			e Received	
% Solids:	0				. 0), 23, )2
Cor	centration	Units (ug	/L or mg/kg dry we:	lght): ug/	
	CAS No.	Analyte	Concentration C  6	2 M	DRAF
	7429-90-5		_   _   _		
	17440-36-0				
	7440-38-2		<u>  - - -</u>	_!_!	
	17440-39-3		<b>!</b> }-:	!!	
	7440-41-7  7440-43-9		{\- <u>-</u>	!!	
	17440-70-2		╎ <b>~~~~</b> ╎~╎~		
	17440-47-3			} <i>-</i> }	
	7440-48-4			;;	
	7440-50-8		- -	;;	
	17439-89-6		i <b></b> -i-i-	— <sub>ì</sub> —i	
	17439-92-1	Lead	3.91	_ifi	
	7439-95-4		<u></u>		
	17439-96-5			!!	
	7439-97-6			!!	
	17440-02-0		╎ <b>~~~~</b> ╎~╎~	!!	
	17440-09-7			!!	
	17782-49-4 17440-22-4	441===	{ <del></del> }-}-	}}	
	7440-23-5		╎ <del>╶──</del>		
	17440-28-0		╎╼━╼╼┼	-{-{	
	7440-62-2		{ <del></del>  -;-	<u>-</u> ;	
	7440-66-6		<del> </del> - -	ii	
	1	Cyanide	ii~i~i~	—i—i	
	1	Beren	6100	Pi	
Color Before:			lty Before: (2		
Color After:	Colorda	Cler:	ity After: Cha	2 Artifact	:8:
Comments:					
<del></del>					<del></del>

Porth I - IN

3/10

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 841 Chestnut Building

Philadelphia, Pennsylvania 19107

Office of Superfund
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

230 Fawn Drive Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

#### CONTAMINANT

### CONCENTRATION

Boron

5,020 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the other substance which was analyzed for and detected in your well, lead, (please refer to the enclosed Sample Result Reports) pose no threat to consumers. This constituent was either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Jack

Remedial Project Manager

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

		INORGANIC	1 : Analysis data sheet	EPA SAMPLE NO.
				D023GW01
Lab Name: ETC		_	Contract:	l
Lab Code:	•	lese No.:	SAS No.:	SDG No.: M7442
Matrix (soil/	mater): WATE	ER .	Lab Sam	ple ID: CA8574
Level (low/med	i): LOW		Date Re	ceived: 09/13/91
% Solida:	0			
Cor	centration	Units (ug	/L or mg/kg dry weight)	: ug/L
	CAS No.	Analyte	Concentration C  Q  M	DRAF
	7429-90-5	Aluminum		
	17440-36-0		{	-{
	7440-38-2		¦	-
	7440-39-3			<del>-</del> }
	7440-41-7		;;-;-;;-	-¦
•	7440-43-9		{	-i
	7440-70-2		i ————i - i —— i —	<del>'</del> i
	7440-47-3	Chromium	·	i
	7440-48-4	Cobelt	1	ĺ
	7440-50-8			İ
	17439-89-6			[
	7439-92-1		4.24 _	1
	7439-95-4		[	.[
	7439-96-5		- -  -	.!
	17439-97-6		\ <del></del>	.[
	7440-02-0  7440-09- <b>7</b>		- -  -	,}
	17782-49-4		╎ <del>╶</del>	
	7440-22-4		<del></del>   -	»;
	7440-23-5		\ <del></del> \- - \-	·¦
	7440-28-0		{ <del></del> }-;	
	7440-62-2	Vanadium	\ <del></del> {-;}-	'i
	7440-66-6		;	ì
	İ	Cyanide		Ì
	1	Betten	5020.0	i
	44.0			•
Color Before:	Children	Clar	ity Before: Chan Te	xture:
Color After:	Cera	Clar	ity After: Chan Ar	tifacts:
Comments:				
		<del></del>		

FORM I - IN

3/70

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY **REGION III** 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund SE Pennsylvania Remedial Section Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

Mr. 220 Park View Court Harleysville, Pennsylvania 19438

Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear Mr.

A sample from your home well was collected on July 18, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and no contaminants were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superrund Includes components. These are called removal and remedial actions.

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Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences.

Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

Lab Name: NET

Contract:

63687

Lab Code: NET Case No.: SALFORD SAS No.: SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4421

**DRAFT** 

Elevel: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNI	TS: G/L	i	Q
74-87-3	Chioromethane	1		ī	
74-83-9	Bromomethane	<del></del> !	10.		1
, , , , , , , , , , , , , , , , , , , ,		_	10.	IU	- 1
75-00-3	Chloroethane		10.	. •	1
75-09-2	Methylene Chlorid	<u> </u>	10.	. —	ı
67-64-1	Acetone	' <b></b> !	5.		1
75-15-0	Carbon Disulfide		10.	. •	ŀ
75-35-4	1, 1-Dichloroethen		5.	IU	- 1
75-34-3	1, 1-Dichloroethan	<u> </u>	5.	10	- 1
540-59-0	1, 2-Dichloroethen		5.	IU	ı
67-66-3	Chloroform_	■ (fots1) —	5.	IU	ı
107-06-2	Chitoroform		5.	IU	- 1
78-93-3	1,2-Dichloroethan	<b></b> !	5.	IU	1
71-55-6	2-Butanone		10.	10	J
			5.	ΙU	1
108-05-4	Carbon Tetrachlor	ideI	5.	IU	1
75-27-4	Vinyl Acetate	I	10.	IU	i
		<b>.</b> .	5.	łŪ	i
10-01-0	TTTI. CTD1CD1CMARAAA.		5.	ΙÜ	i
	'Cle-1. (-Diahlam)		5.	ίü	i
13-61-6	"""  richiorosthana	•	5.	IU	i
		<b></b>	5.	111	i
/ 3 - 00 - 3	l.l.2-Trichlanaet	lane	5.	iu	i
1-43-5	Kenzene		5.	iu	i
22 02 0	Trans-1, 3-Dichloro	propene	5.	iυ	i
/3-53-5	Bromoform	<del>_</del> .	5.	ίυ	,
.vo-!V-!	4-Methy1-2-Pentano	ne	10.	iu	i
111-/ <b>0-0</b>	2-Hayanana	<del></del> ,	10.	iu	- 1
(2/-18-4	Tetrachloroethene		5.	iu	1
/9-34-5	1.1.2.2-Tetrachlon	oethane	5.	ΙÜ	
, 00-08-7	IOIUSNA	•	5.	iu	1
Ø8-9 <b>0</b> -7	Chlorobenzene		5.	10	1
	ETRVINSMISSA	— <b>.</b>	5.	18	i
.00-46-3	atvrene	<del></del> ,	5.	טו	7
79-29-7	Xylene (total)	<del>'                                    </del>	5.	iu A	ا م

VOLATILE DEL TOS AMPLYSTS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

63687

EPA SAMPLE NO.

ab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Bample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4421

DRAFT

Level: (low/med) LOW

Date Received: 7/18/91

Moisture: not dec. 100.

Date Analyzed: 7/22/91

\_Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TIEs found:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER !	COMPOUND NAME	I RT I	
		; 	
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, <del>-</del>		!	
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5I _		_!i	 
7		_!i	 
a		11	 

Lab Name: NET

Lab Code: NET

Contract:

63687

SDG No.: 67683

Matrix: (soil/water) WGTER

Case No.: SALFORD SAS No.:

Sample wt/vol: 1000.0 (g/mL) ML

Lab Sample ID:

Lab File ID: A9816

DRACI

Level: (low/med) LOW

Date Received: 7/18/31

% Moisture: not dec. 100. dec.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N

Dilution Factor:

CONCENTRATION UNITS: CAS NO. COMPOUND (ua/L or ua/Ka) HS/L

ρH:

. 0

CAS NO.	COMPOUND (ug/!	or ug/Kg)	UG/L		Q
i   108-95-2	Phenol	!			
111-44-4			10.	IU	
95-57-8	2-Chlorophenol	r!	10.	ΙŪ	
541-73-1	1,3-Dichlorobenzene	!	10.	ΙÜ	
106-46-7		!	10.	ΙU	
100-51-6	Benzyl alcohol	<del></del>	10.	ΙU	
95-50-1	4.4.5. #1501101		10.	ΙU	
95-48-7	2-Methylphenol bis(2-Chloroisopropyl)	!	10.	ΙŪ	
39638-32-9	earlythieno!		10.	ΙU	
106-44-5	A-Methylabara	ether :	10.	IU	
621-64-7		1	10.	IU	
67-72-1		11 ne	10.	10	
98-95-3	Hexachloroethane Nitrobenzene	1	10.	10	
78-59-1		1	10.	iu	
88-75-5	2-Ni Amort	!	10.	ίŬ	
105-67-9	- Nitrophenol	1	10.	ίŬ	
65-85-0	2,4-Dimethylphenol	1	10.	iŭ	
111-91-1		1	50.	iu	
120-A3-2	bis(2-Chloroethoxy) meth	ane!	10.	U	
			10.	IU	
91-20-7	1, 2, 4-Trichlorobenzene		10.	10	
106-47-0-	Naphthalene		10.	טו	
87-60-7	4-Chloroaniline		10.		
59-50-7	Hexachlorobutadiene		10.	10	
			10.	IU	
71-3/-6	2-Methylnaphthalene	;	10.	IU	!
			10.	IU	1
00_AP-5	2, 4, 6-Trichlorophenol	~ -;	_	ייו	!
73-73-4	2, 4, 5-Trichlorophenol	'	10.	IU	1
91-58-7	2-Chloronaphthalene	<del></del> '	50.	IU	1
88-74-4	2-Nitroaniline	<del></del> ¦	10.	IU	1
131-11-3	Dimethylphthalate	<del></del> :	50.	IU	- 1
208-96-8	2.6-Dinitrotal	<del></del> !	10.	וט	1
606-20-2	2,6-Dinitrotoluene	<del></del> !	10.	IU	1
		I	10.	IÜ	

69697

Lab Name: NET

Contract:

Lab Code: NET Case No.: SALFORD SAS No.: SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: A9216

DRAFT

Level: (low/med) LOW

Date Received: 7/18/31

🗴 Maisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	4 - 41				
		(ug/L or	ug/Kg)	UG/L	a	
		<del></del>	i		1	_
33-43-2	3-Nitroaniline		<b></b> !	50.	IU	
33-32-3	Acenaphthene		<b></b> ¦	10.	IU	
21-68-2	2,4-Dinitrophenol	· ———	<del></del> :	50.	IU	
166-65-/	4-Nitrophenol		!	50.	U	
135-64-3	Dibenzofuran		¦	10.	ıu	
	2,4-Dinitrotoluer			10.	10	
44-66-2	Diethylphthalate		'	10.	ıu	
7005-72-3				10.	ıu	
86-73-7	Fluorene		!	10.	10	
100-01-5	4-Nitroaniline		<del></del> !	50.	IU	
	4,6-Dinitro-2-met			50.	ļŲ	
86-30-6	N-Nitrosodiphenyl	amine (1	<b>'</b> —!	10.	וט	
101-55-3	4-Bromophenyl-phe	mylether	!	10.	10	
118-74-1	Hexachlorobenzene	·	!	10.	ľŪ	
87-85-5	Pentachlorophenol	·	!	<b>50.</b>	ıu	
85-01-8	Phenanthrene		<b></b> !	10.	10	
120-12-7	Anthracene			10.	IU	
84-74-2	Di-n-butylphthala	ite	<b></b> !	10.	ΙÜ	
206-44-0	fluoranthene		<u>{</u>	10.	IU	
129-00-0	Pyrene		<b></b> !	10.	IU.	
85-68-7	Butylbenzylphthal	ate	!	10.	IU	
	3,3'-Dichlorobenz			20.	I U	
36~33~3~~~~	Benzo(a) anthracer	·e	!	10.	10	
~18-VI-9	Chrysene_ bis(2-Ethylhexyl)		—- <u>'</u>	10.	10	
117-81-7	bis(2-Ethylhexyl)	phthalat	<b>e_</b> _!	10.	10	
117-64-6	Di-n-octylphthala	te	!	10.	Į <b>U</b>	
202-33-2	Benzo (b) fluoranth	ene	!	18.	10	
207-08-9	Benzo(k)fluoranth	ene	!	10.	IU	
50-32-8	Benzo (a) pyrene		!	10.	10	
193-39-5	Indeno $(1, 2, 3-cd)$ p	hane	}	10.	IU	
33-70-3	Dibenz(a,h)anthra Benzo(g,h,i)peryl	cene		10.	IU	
	_		1	1 <b>0.</b>	ľÚ	

#### SEMINOLATILE ORCANICS ANALYSIS DATA SHEET TENTATIVE IDENTIFIED COMPOUNDS

53687

EPA SAMPLE NO.

Lab Name: NET

Lab Code: NET

Sample wt/vol:

Contract:

SDG No.: 69683

Matrix: (scil/water) WATER

Lab Sample ID:

DRAFT

1.

1000.0 (g/mL) ML

Lab File ID: A9216

Level: (low/med) LOW Date Received: 7/18/91

% Moisture: not dec. 100. dec.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/31

GPC Cleanup: (Y/N) N

pH: .0

0.

Case No.: SALFORD SAS No.:

Dilution Factor:

1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Number TICs found:

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26.	IC.   Q
3.	
4.         5.         6.         7.         8.         9.         10.         11.         12.         13.         14.         15.         16.         17.         18.         19.         21.         22.         23.         24.         25.	
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	!
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7.	'
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10.	
12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	
13.	!
14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	
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AR500197

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1/87 Rev.

PESTICIDE ORGANICS ANALYSIS DATA SHEET DRA	EPA SAMPLE()
Lab Name: CAMBRG Contract: ENVIRON	D014GW01
Lab Code: CAMBRG Case No. : FD4148 SAS No. :	SDG No. :
Matrix: (soil/water) WATER Lab Sample	ID: 0565-12612
Sample wt/vol: 1000 (g/mL) ML Lab File I	D:
Level: (low/med) <u>LDW</u> Date Recei	ved: 07/18/91
% Moisture: not dec dec Date Extra	cted: <u>07/23/91</u>
	2 ed: <u>08/03/91</u>
GPC Cleanup: (Y/N) N pH: 6.0 Dilution F	actor:1_00
CONCENTRATION UN  CAS NO. COMPOUND (ug/L or ug/kg)	IITS: UG/L G
319-84-6	0. 050 ! U 0. 10 ! U 0. 10 ! U 0. 10 ! U 0. 10 ! U 0. 10 ! U 0. 10 ! U 0. 10 ! U 0. 10 ! U 0. 10 ! U 0. 10 ! U 0. 50 ! U 0. 50 ! U 0. 50 ! U 0. 50 ! U 0. 50 ! U 0. 50 ! U
11097-69-1Araclar-1254 11096-82-5Araclar-1260	1.0(U :



		INORGANIC	1 ANALYSIS DATA	SH	EET	<u> </u>	PA SAMPLE NO
ab Name: NET	ATLANTIC TH	OROFARE DI	Contract:			 	69687
b Code: NET	Ca	se No.:	SAS No.	: ;	SALFORD	s	DG No.: 6968:
etrix (soil/w	ater): WATE	R		La	ıb Samo	1.	ID: 23180-05
evel (low/med							
				וע	re kec	<b>e</b> lv	ed: 07/18/91
Solids:	0.	0					
Con	centration	Units (ug/	L or mg/Kg dry	W (	ight):	UG	/L DRAF
	CAS No.	Analyte	Concentration	C	Q	M	<u> </u>
	7429-90-5	Aluminum	30.00	រីបី		P	! }
	17440-36-0	Antimony	19.00			P	i
	•	Arsenic	2.00			E	<b>!</b>
	7440-39-3  7440-41-7	Barium	192.00			P	!
	17440-41-7		2.00 2.00			P	
	17440-70-2		52000.00			P   P	j 1
	17440-47-3		3.00			P	1
	17440-48-4		5.00	-		P	<u> </u>
	17440-50-8	Copper	4.00			P	j
	17439-89-6		11.00	ן ט ן		P	İ
	17439-92-1		3.00			F	1
	17439-95-4	Magnesium	17800.00	- :		P	1
	17439-96-5	Manganese				P	ļ
	17439-97-6 17440-02-0	Mercury	0.20			CA	ļ
	· - · · · -	Potassium	6.00 675.00			P	1
		Selenium		-		P	[ !
	17440-22-4		4.00			P	; 1
	17440-23-5		11000.00			İP	i
	17440-28-0	Thallium	3.00		W	7	ì
	17440-62-2		4.00	ן ס ן		P	İ
	7440-66-6	Zinc	12.00			P	1
	ļ	Boron	259.00			P	]
		Cyanide	10.00	ן ט ן		l C	}
lor Before:	,	Clari	y Before:	'-'		Te	ì Eture:
lor After:		Clarit	y After:			Ar	tifacts:
mments:							
826B-D014-G	W01						AR500199

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund SE Pennsylvania Remedial Section Direct Diai (215) 597-8257 Mail Code 3HW21

November 5, 1991

720 Cressman Road Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear .

A sample from your home well was collected on July 18, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and no contaminants were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions.

Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

	INORGANIC A	WALYSIS DATA SHEET	EPA SAMPLE NO.
Lab Name: STC	CORP.	Contract: SAS No.:	D020GW01
Matrix (soil/w	ater): WATER	Lab Samp	ple ID: CA8573
Level (low/med	): LOW	Date Rec	ceived: 09/13/91
% Solids:	0		
Con	centration Units (ug/L	or mg/kg dry weight):	: u <b>g/L</b>
	CAS No. Analyte C	oncentration C Q M	DRAFI
į	7429-90-5 Aluminum		_
	7440-36-0  Antimony		
i	7440-38-2  Arsenic   7440-39-3  Berium	-  -	-
	7440-41-7   Beryllius	<del></del> }-}	-}
į	7440-43-9   Cadmium		<b>'</b> i
	7440-70-2  Calcium		ĺ
	7440-47-3  Chromium		.!
i	7440-48-4   Cobalt  7440-50-8   Copper		
İ	7439-89-6   Iron		
İ	7439-92-1 Lead	2.00 0	·
	7439-95-4  Magnesium _	i_ii	j
	7439-96-5  Manganese		
	7439-97-6   Mercury		
	7440-02-0   Wickel   7440-09-7   Potassium	<del></del>  -  -	·}
	7782-49-4  Selenius_ _	<del></del> ;;	·{
	7440-22-4  Silver	i-ii-	i
	7440-23-5   Sodium		i
	7440-28-0 [Thellium]	!!!	.!
	7440-62-2   Venadium		ļ
]	7440-66-6   Zinc		}
j	Boton	210-00 P	i
Color Before:	Colore Clarity	· _	xture:
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Comments:			
	FORM:	I - IN	3/70
			AR50102

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

## 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

224 Fawn Drive Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear

Samples from your home well were collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

#### CONTAMINANT

#### CONCENTRATION

Boron

7,790 parts per billion (unsoftened water) 3,410 parts per billion (softened water)

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. The other substance which was analyzed for, lead, was not detected in your well (please refer to the enclosed Sample Result Reports).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and \$8500203 Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund.

Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

Levan Lec

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

INORGANIC	· 1 AWALTSIS	DATA	SHEET

EPA SAMPLE NO.

D034GW02

Lab Name: ETC CORP.

Lab Code:

Case No.:

Contract:

SAS No .:

SDG No .: M7447

Matrix (soil/water): WATER

Lab Sample ID: CA8633

Level (low/med):

LOW

Date Received: 09/18/91

% Solids:

0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	  Concentration !	C	Q	M
	Aluminum		-		<u>'i –</u>
7440-36-0	Antimony		_		
7440-38-2			1		]_
7440-39-3	Barium				'i-
7440-41-7	Beryllium			-	<u> </u>
7440-43-9					·i —
7440-70-2	Calcium		i – i		·i-
7440-47-3	Chromium				'i-
7440-48-4			i		i -
7440-50-8	Copper		iTi		i –
7439-89-6	Iron	( <del></del>			·i
7439-92-1		2.00	Ū	7	iF
7439-95-4	Magnesius		Ī	17	1
7439-96-5			-i		i –
	Mercury		-i		۱ <u> </u>
7440-02-0		·	-		`i
7440-09-7		· <del></del>	_i		i-
	Selenium_		-i		i-
7440-22-4	Silver		-i		i —
7440-23-5			-i		i-
	Thallium		-i		i-
7440-62-2		i	-i		i-
7440-66-6	Zine		-i		1
, , ,	Cyanide	i	-i		i –
	Better	3410.0	-'		Þ

**DRAFT** 

Color Before:	Columbar	Clarity Before:	حمض	Texture:	
Color After:	Charles	Clarity After:	معض	Artifacts:	
Comments:					
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FORM I - IN

3/90

### INORGANIC ANALYSIS DATA SHEET

1	EPA	SAMPLE	NO.
   	D0:	34GW01	

Lab Name: ETC CORP.

Lab Code:

Case No.:

Contract:

SAS No.:

SDG No.: M7447

Matrix (soil/water): WATER

Lab Sample ID: CA8630

Level (low/med):

LOW

Date Received: 09/18/91

% Solids:

0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS	No.	Analyte	Concentration	c	Q	M
7429	-90-5	Aluminum		<b> -</b>	<u> </u>	¦
7440	-36-0	Antimony_				1
7440	-38-2	Arsenic		1	i ——	i –
7440	-39-3	Barium		1		<u>;</u> —
7440	-41-7	Beryllium		i-i	i —	ì٣
7440	-43-9	Cadmium		1		i —
7440	-70-2	Calcium		-		ĺ
7440	-47-3	Chromium		-		i —
7440	-48-4	Cobalt		į-i		i-
7440	-50-8	Copper		1		i –
7439	-89-6	Iron		أحا		i-
7439	-92-1	Lead	2.00	וֹטּוֹ	WM	iF
7439	-95-4	Magnesium		İ		Ì
	-96-5	Manganese		i Ti		i-
7439	-97-6	Mercury_		i-i		i –
	-02-0	Wickel		i"i		i –
7440	-09-7	Potassium		i-i		i –
7782	-49-4	Selenium		أأأ		
7440	-22-4	Silver		i-i		
7440	-23-5	Sodium		i Ti		
	-28-0	Thallium		i Ti		_
7440	-62-2	Vanadium		i-i		
7440	-66-6	Zine		i Ti		
-		Cyanide		i-i		
	<u> </u>	Berry	7792.0			P

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Comments:					
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FORM I - IN

3/10

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

## 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

216 Fawn Drive Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear

Samples from your home well were collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

#### CONTAMINANT

#### CONCENTRATION RANGE

Boron

10,900 - 11,200 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the other substance which was analyzed for and detected in your well, lead, (please refer to the enclosed Sample Result Reports) poses no threat to consumers. This constituent was either present in your well at concentrations below EPA's drinking water standards or elicits less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

5 101111

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

Cisece XEC

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

Lab Name: ET	C CORP.		C-24-		D035GW01
Lab Code:		Case No.:	Contr SAS N		SDG No.: M7447
Matrix (soil	/water): WAT	ER		Lab Sample 1	ID: CA8627
Level (low/me	ed): LOW			Date Receive	d: 09/18/91
% Solids:	0				
Co	oncentration	Units (ug	/L or mg/kg dr	y weight): up	r/L
	CAS No.	Analyte	Concentration	ICI Q M	DRAF
	171/20-00-8	Aluminum	<u> </u>	<u> </u>	ואחם
		Antimony	<u> </u>	¦-¦	
	7440-38-2	Arsenic_		; <u>-</u> ;;;	
	17440-39-3				
	17440-41-7	Beryllium		!-!! <b></b> !	
	7440-43-9  7440-70-2		<u> </u>	<u> </u>	
	7440-47-3		<del></del>	<b>╎╌╎╌╌╎╌</b> ╎	
	7440-48-4		<u> </u>	<u> </u>	
	17440-50-8			i i i i i i i i i i i i i i i i i i i	
	7439-89-6				
	17439-92-1		32.00	_ X_ F	
		Magnesium	<u> </u>	-	
	7439-98-5	Manganese	¦	<b>\-</b> \\-\	
	7440-02-0		<u> </u>	<u> -  - </u>	
		Potessium	i	j-iii	
	17782-49-4	Selenium_			
	7440-22-4				
	17440-23-5		<u></u>	-	
	7440-28-0	Thallium_  Vanadium_	<u></u>	-	
	7440-66-6	Zine	} <del></del> -	-	
		Cyanide		i-iii	
		Bones	10900.0	<u> </u>	
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Color After:	Charles	Clar	ity After: 🥥	Artifa	ets:
Comments:					
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FORM I - IN

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#### U.S. EPA - CLP EPA SAMPLE NO. INORGANIC ANALYSIS DATA SHEET D035GW11 Contract: Lab Name: ETC CORP. Case No.: SAS No .: Lab Code: SDG No .: M7447 Matrix (soil/water): WATER Lab Sample ID: CA8628 LOW Date Received: 09/18/91 Level (low/med): 0 % Solids: Concentration Units (ug/L or mg/kg dry weight): ug/L Analyte | Concentration | C | Q CAS No. 7429-90-5 Aluminum DRAFT |7440-36-0 |Antimony] |7440-38-2 |Arsenic\_ |7440-39-3 |Barium |7440-41-7 |Beryllium |7440-43-9 |Cadmium\_ |7440-70-2 |Calcium |7440-47-3 |Chromium 17440-48-4 |Cobelt |7440-50-8 |Copper 17439-89-6 (Iron 8.86 |7439-92-1 |Lead 7439-95-4 | Magnesius |7439-96-5 |Manganese

Color Before: Clarity Before: Chan Texture:

Color After: Clarity After: Chan Artifacts:

Comments:

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|7439-97-6 | Mercury | 7440-02-0 | Nickel | 7440-09-7 | Potassium | 7782-49-4 | Selenium | 7440-22-4 | Silver | 7440-23-5 | Sodium | 7440-62-2 | Vanadium | 7440-66-6 | Zinc

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Cyenide

FORM I - IN

3/90

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# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 841 Chestnut Building Philadelphia, Pennsylvania 19107

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Office of Superfund SE Pennsylvania Remedial Section Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

. 225 Parkview Court Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dea:

A sample from your home well was collected on July 19, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and no contaminants were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions.

Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

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Summary of Select EPA Standards

Boron Fact Sheet

Definitions

**DRAFT** 

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+Due to dilution, sample quantitation limit is affected.

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Dilution factor Location

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See dilution table for specifics.

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DATA SUPPLARY FORM: I H O R G A N I C S

Tabe 4

HATER SAMPLES (FB/F)

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ite men Salford WARRIN

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Required Detection Limit

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# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

/70 Hideaway Lane Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear M

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below wase detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

#### CONTAMINANT

#### CONCENTRATION

Boron

5,070 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the other substance which was analyzed for and detected in your well, lead, (please refer to the enclosed Sample Result Reports) poses no threat to consumers. This constituent was either present in your well at concentrations below EPA's drinking water standards or elicits less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

### INCREASE ANALYSIS DATA SHRET

EPA	SAMPLE	NO
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**DRAFT** 

Lab Name: ETC CORP.

Lab Code:

Case No.:

Contract: SAS No.: D0320W01

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8565

Level (low/med);

LOW

Date Received: 09/13/91

% Solids:

0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	  Concentration	  C	Q	M
	Aluminum		<u> </u>		-
7440-36-0	Antimony		<u>                                     </u>		
7440-38-2	Arsenie_		<u>                                     </u>		
7440-39-3	Barius	1	ı		ï-
7440-41-7	Beryllium		1		i T
7440-43-9	Cadmium				i-
7440-70-2	Calcium				<u> </u>
7440-47-3		j <del></del>	i – i		i —
7440-48-4	Cobels				i —
7440-50-8	Copper				i-
7439-89-6	Iron				i
7439-92-1	Lead	2.94	Ħ		F
7439-95-4	Magnesius	j			i
7439-96-5	Manganese				i –
7439-97-6	Hercury				i
7440-02-0		i <del></del> i			i
7440-09-7	• —	ì			i –
7782-49-4					i
7440-22-4	Silver	·			i
7440-23-5	Sodium		-i		i —
7440-28-0	Thallium	<del></del>			i
7440-62-2	Vanadium		٦i		i
7440-66-6	Zine	<del></del>	٦ï		i —
	Cyanide		-		i —
	'8'	' <del></del> '	→'		75

	 Clarity Before: Clarity After:		
Comments:			
		 	<del>_</del>
	 	 	_

FORM I - IN

3/70

### INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DO32GWL1

Lab Hame: ETC CORP.

Lab Code:

Case No.:

Contract:

SAS No.:

SDG No .: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8571

Level (low/med):

Date Received: 09/13/91

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	H
7429-90-5	Aluminum		<u> </u>	i	¦_
	Antimony_	1	1_	·	
7440-38-2	Arsenic_	!	<b>!</b> _		
7440-39-3		Ji	1_		1
7440-41-7	Beryllius	l	1_		
7440-43-9	Cadmium_	}	\ <u>_</u> '		
	Calcium_			!	lacksquare
7440-47-3	Chromium		_		$\sqcup$
•	Cobalt				lΞ
	Copper				١_
	Irea		<u>                                     </u>		
7439-92-1	Lead	2.00			F
	Magnesium	<u> </u>			ا
	Hangazese				1_
	Hereury_	l			1_
7440-02-0	Wickel	1			1_
7440-09-7		•			
	Selenium_	1		·	1_
7440-22-4					
7440-23-5		! <u></u>			
7440-28-0	Thellium	·			
	Venadium_	<u> </u>			<u> </u>
7440- <b>66-6</b>	Zine	<u> </u>			<u> </u>
	Cynaide	l	_		Ì
	Botton	33000			

**DRAFT** 

Color Before:	Colerdan	Clarity Before:	Can	Texture:	
Color After:	Colorbus	Clarity After:	Chan	Artifacts:	
Comments:					

FORM I - IN

3190

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

210 Fawn Drive Harleysville, Pennsylvania 19438

Re: Analysis of th∈ Home Well during the Remedial Investigation of the Salford Quarry Site

Dear

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Boron

11,800 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. The other substance which was analyzed for, lead, was not detected in your well (please refer to the enclosed Sample Result Reports).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and AR5002 8 Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund.

Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Liva Re

Cesar Lee (3HW21)
Remedial Project Manager
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

#### U.S. EPA - CLP EPA SAMPLE NO. INORGANIC ANALYSIS DATA SHEET D030GW01 Lab Name: ETC CORP. Contract: SAS No.: Case No.: Lab Code: SDG No.: M7442 Matrix (soil/water): WATER Lab Sample ID: CA8562 LOW Date Received: 09/13/91 Level (low/med): 0 % Solids: Concentration Units (ug/L or mg/kg dry weight): ug/L DRAFT CAS No. Analyte | Concentration | C | Q 7429-90-5 Aluminum |7440-36-0 |Antimony |7440-38-2 |Arsenic\_ |7440-39-3 |Berium |7440-41-7 |Beryllium |7440-43-9 | Cadmium |7440-70-2 |Calcium 17440-47-3 |Chromium 17440-48-4 |Cobelt\_ |7440-50-8 |Copper 17439-89-6 | Iron 2.00 0 |7439-92-1 |Lead 17439-95-4 | Magnesium |7439-96-5 |Manganese 17439-97-6 |Mercury\_ |7440-02-0 |Nickel |7440-09-7 |Potassium | 7782-49-4 | Selenium\_ |7440-22-4 |Silver |7440-23-5 |Sodium |7440-28-0 |Thallium |7440-62-2 |Venadium\_ 7440-66-6 Zine Cyanide 118000

Color	Before:	Colorbas	Clarity	Before:	Clean	Texture:	
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Comme	nts:						
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FORM I - IN

370

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21 G -

November 5, 1991

236 Fawn Drive Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dea

Samples from your home well were collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and neither of the contaminants which were analyzed for, boron and lead, were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In Amin 1992

Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

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Summary of Select EPA Standards

Boron Fact Sheet

## 1 INORGANIC ANALYSIS DATA SHEET

epa	Sample	KO.
EPA	SAMPLE	ĸQ.

Lab Name: ETC CORP.

Lab Code:

Case No.:

Contract: SAS No.: D033GW01

Matrix (soil/water): WATER

Lab Sample ID: CA8563

Level (low/med):

LOW

Date Received: 09/16/91

% Solids:

0

Concentration Units (ug/L or sg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	С	Q	M
	Aluminum		-		i=
7440-36-0	Antimony	l			
7440-38-2	Arsenic		_		
7440-39-3	Berium_	l			1
7440-41-7	Beryllium	1			
7440-43-9	Cadmium_				1
7440-70-2	Calcium		1		1
7440-47-3	Chromium.				Ī
7440-48-4	Cobelt		ΙĪΙ		
7440-50-8	Copper				1
7439-89-6	Iron		1		i —
7439-92-1	Lead	7.36	-		1
7439-95-4	Magnesium				İ
7439-96-5	Hanganese				i
7439-97-6	Hercusy_				i –
7440-02-0	Wickel -				i —
7440-09-7	Potassium				i —
7782-49-4	Selenium				i
7440-22-4	Silver		i		i
7440-23-5	Sodium		Ī		i
7440-28-0	Thallium				i
7440-62-2	Vanadium				i —
7440-66-6	Line				i —
	Creatde				i —
	Botton		-		<b>'</b> P

**DRAFT** 

Color Before:	Colorbus	Clarity Before:	Can	Texture:	
Color After:	Charles	Clarity After:	Clear	Artifacts:	_
Comments:					

FORM I - IN

3/90

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

#### 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

22/ Fawn Drive Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear Mr

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Boron

8,400 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. The other substance which was analyzed for, lead, was not detected in your well (please refer to the enclosed Sample Result Reports).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and N 500224 Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund.

Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

EPA SAMPLE NO.

<del></del>	Date ig/L or mg/kg dry weight of Concentration C Q	DPAR
Jo.   Analyte  -90-5   Aluminu -36-0   Antimon -38-2   Arsenic -39-3   Barium -41-7   Berylli -43-9   Cadmium -70-2   Calcium -47-3   Chromiu -48-4   Cobalt -50-8   Copper -89-6   Iron	Concentration C Q	ght): ug/L
Fo.   Analyte	Concentration C Q	DPAR
## ## ## ## ## ## ## ## ## ## ## ## ##	Concentration C Q	DPAR
## ## ## ## ## ## ## ## ## ## ## ## ##	Concentration C Q	DPAR
-90-5   Aluminu -36-0   Antimon -38-2   Arsenic -39-3   Barium -41-7   Berylli -43-9   Cadmium -70-2   Calcium -47-3   Chromiu -48-4   Cobalt -50-8   Copper -89-6   Iron	2.00 0	
-36-0   Antimon -38-2   Arsenic -39-3   Barium -41-7   Berylli -43-9   Cadmium -70-2   Calcium -47-3   Chromium -48-4   Cobalt -50-8   Copper -89-6   Iron	2.00 0	
-38-2   Arsenic -39-3   Barium -41-7   Berylli -43-9   Cadmium -70-2   Calcium -47-3   Chromiu -48-4   Cobalt -50-8   Copper -89-6   Iron	2.00 0	
-39-3   Barium -41-7   Berylli -43-9   Cadmium -70-2   Calcium -47-3   Chromiu -48-4   Cobalt -50-8   Copper -89-6   Iron	2.00 0	
-41-7   Berylli -43-9   Cadmium -70-2   Calcium -47-3   Chromiu -48-4   Cobalt -50-8   Copper -89-6   Iron	2.00 0	
-43-9   Cadmium -70-2   Caleium -47-3   Chromiu -48-4   Cobalt -50-8   Copper -89-6   Iron	2.00 0	
-70-2   Caleium -47-3   Chromiu -48-4   Cobalt -50-8   Copper -89-6   Iron	2.00 0	
-47-3  Chromiu -48-4  Cobalt_ -50-8  Copper_ -89-6  Iron	2.00 0	
-48-4   Cobalt_ -50-8   Copper_ -89-6   Iron	2.00 0	
-50-8  Copper_ -89-6  Iron		
-89-6   Iron		
		{ <del></del> {
-95-4 Magnesi		<del>-</del> ;* ;
-96-5   Mangane		<del></del> ;;
-97-6 Mercury	_ ii - i	— <u>i</u> — i
-02-0   Nickel_	=   <del>   -    </del>	
-09-7   Potassī		
-49-4  Seleniu		
-22-4  S11ver_	_!!!	<u> </u>
-23-5  Sodium_	_!!	_!_!
-26-0 Thalliu		_!_!
-62-2  Vanadiu	-  - - -	-!-!
-66-6   Zinc	-	
Cyanide	8400.0	
Borren	5700.6	
Carles CI	rity Before: Ode	7 Texture:
rles CI	rity Before: Obe	Artifacts:
		FORM I - IN

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

#### 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

Mr. an 209 Shady Nook Hill Road Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear Mr. and Mr:

Samples from your home well were collected on July 18, and September 10-17, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminants listed below were detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

#### CONTAMINANT

#### CONCENTRATION RANGE

Boron

11,800 - 12,100 parts per billion

According to currently acceptable EPA standards, the other substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Acf P519227 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund.

Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

## VOLATILE OSGANICS ANALYSIS DATA SHEET

IPA SAMPLE NO.

Lab Name: NET

Contract:

€3€84

Lab Code: NET

Sample wt/vol:

Case No.: SALFORD SAS No.:

SDG No.: 63683

Matrix: (soil/water) WATER

g Moisture: not dec. 100.

5.0 (g/mL) ML

Lab Sample ID:

Lab File ID: E4418

(low/med) LOW

Date Received: 7/18/91

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

74-87-3Chloromethane	10.	1 1U	ļ
74-83-9Bromomethane1	10.	iu	ļ
75-01-4Vinyl ChlorideI	10.	ΙŪ	ſ
75-00-3Chloroethane	10.	ΙŪ	ļ
75-09-2Methylene Chloride	5.	łŪ	ļ
67-64-1Acetone	10.	łU	
75-15-0Carbon Disulfide	5.	ΙÜ	
75-35-41,i-DichloroetheneI	5.	IU	
75-34-31,1-Dichloroethane	5.	10	Í
540-59-01, 2-Dichloroethene (total)	5.	IU	
67-66-3Chloroform	5.	IU	ļ
107-06-21, 2-Dichloroethane	5.	ΙŲ	ļ
78-93-31	10.	ľŪ	,
71-55-6!, 1, 1-Trichloroethane!	5.	IU	ļ
56-23-5Carbon Tetrachloride	5.	IU	ļ
108-05-4Vinyl Acetate	10.	IU	ļ
75-27-4BromodichloromethaneI	5.	10	ļ
78-87-5	5.	ΙŲ	
10061-01-5cis-1,3-Dichloropropene	5.	10	
73-01-6Irichloroethene	5.	16	
124-48-1DibromochloromethaneI	5.	10	
73-00-51, 1, 2-Trichloroethane;	5.	IU	ļ
71-43-2Benzene1	5.	IU	ļ
10061-02-6Trans-1,3-Dichloropropene1	5.	IU	ı
75-25-2Bromoform!	5.	ΙÜ	١
108-10-1	10.	ľŲ	,
591-78-62-HexanoneI	10.	IU	
127-18-4Tetrachloroethene	5.	IU	ļ
79-34-51, 1, 2, 2-Tetrachloroethane	5.	!U	ļ
108-88-3IolueneI	5.	I U	
108-90-7Chlorobenzene	5.	16	ļ
100-41-4EthylbenzeneI	5.	មេ	J
100-42-5Styrene!	5.	10	ļ
1330-20-7Xylene (total)	5.	IU	1
		!	1

VOLATILE OR' ICS ANALYSIS DATA SHEET

TENTATIVEL: IDENTIFIED COMPOUNDS

Contract:

69584

ERA SAMPLE NO.

ab Name: NET Lab Code: NET

Case No.: SALFORD SAS No.: SDG No.: 69683

Matrix: (Spil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4418

DRAFT

tevel: (low/med) LOW

Date Received: 7/18/91

k Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS: (up/L or up/Kg) UG/L

Number TICs found: Ø (ug/L or ug/Kg) UG/L				
CAS NUMBER !	COMPOUND NAME		   EST. CONC.	l L Q
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3.				1
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8		!	!	I
			1	1
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			(	!
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17			! ————	١
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2811		!	!	<u> </u>

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FORM I VOA-TIC

EPA SAMPLE NO.

69684

TEM temas NET

Contract:

Lab Code: NET Case No.: SALFORD SAS No.: SDG No.: 69683

Matrix: (Soil/Water) WATER

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9213

Lab Sample ID:

DRAFT

Level: (low/med) LOW

Date Received: 7/18/31

x Moisture: not dec. 100. dec.

0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH: .@

Dilution Factor: 1.00

		CONCENTRATION UN	VITS:		
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q	
100-25-2	Chavol	,	10.	1 1U	<u></u> }
111-44-4	his(2-Ch)oros	ethyl)etheri	10.	10	1
95-57-8	2-Chloropheno	1	10.	U	) 
541-73-1	1.3-Dichlorot	enzene	10.	יטו	,
		enzenei		iu	•
		1i	10.	iu	,
		penzene	10.	เบ	· ·
95-48-7	2-Methylpheno	1	10.	IU	İ
29638-32-9	bis(2-Chloro	isopropyl)ether (	10.	iU	i
106-44-5	4-Methylpheno	11	10.	ΙU	i
621-64-7	N-Nitrosa-di-	n-propylamine_!	10.	IU	i .
67-72-1	Hexachloroeth	nane	10.	IU	Š
98-95-3	Nitrobenzene		10.	เบ	i
78-59-1	Isophorone		10.	IU	i
88-75-5	2-Nitrophenol		10.	iŭ	j
105-67-9	2.4-Dimethyl	phenolI	10.	iù	i
65-85-0	Benzoic acid		58.	iu	i
111-91-1	bis(2-Chloro	thoxy) methanei	10.	10	i
		henolI	10.	ΙU	i İ
120-82-1	1.2.4-Trichle	probenzene!	10.	ίŪ	i
	Naphthalene		10.	iŭ	i
106-47-8	4-Chloroanili	ineI	10.	IU	į
87-68-3	Hexachlorobut	tadiene	10.	เป	İ
	4-Chloro-3-m		10.	ίŬ	ì
31-57-6	2-Methylnapht	halene	10.	ΙÜ	i
77-47-4	Hexachlorocyc	lopentadiene	18.	ίŬ	i
88-06-2	2,4,6-Trichle	prophenol !	16.	iŭ	į
35-95-4	2,4,5-Trichle	prophenol	50.	IÜ	i i
91-58-7	2-Chloronapht	thalene	10.	10	1
88-74-4	2-Nitroanilir	ne	50.	ΙÜ	1
131-11-3	Dimethylphtha	late	10.	IU	AR5002
208-96-8	Acenaphthyler	1	10.	IU	HILDOCE
606-20-2	2,6-Dinitroto	oluene!	10.	ΙŪ	į ·
	•	<del></del>			_

Case No.: SALFORD SAS No.:

EPA SAMPLE NO.

63684

Lab Name: NET

Lab Code: NET

Contract:

SDG No.: 63683

latrix: (spil/water) WATER

tab Sample ID:

DRAFT

Bample wt/vol: 1000.0 (g/mL) ML

tab File ID: A9213

Level: (low/med) LOW

Date Received: 7/18/31

Moisture: not dec. 100. dec.

CAS NO.

Date Extracted: 7/19/91

Evtraction: (SepF/Cont/Sonc) CONT

COMPOUND

Date Analyzed: 7/27/91

SPC Cleanup: (Y/N) N pH: .0

Dilution Factor: 1.00

CONCENTRATION UNITS:

(ug/L or	ug/Kg) UG	3/L Q

	<u> </u>			
33-03-2	3-Nitroaniline	50.	1	
93-32-9	Acenaphthene	10.	iu	
51-28-5	2,4-Dinitrophenol	50.	ΙÜ	
100-02-7	4-Nitrophenol	50.	ıυ	
132-64-9	Dibenzofuran	10.	ıu	
121-14-2	2,4-Dinitrotoluene	10.	ıŭ	
	Diethylphthalate	10.	iu	
7005-72-3	4-Chlorophenyl-phenylether_	10.	ίŪ	
	Fluorene	10.	14	
	4-Nitroaniline	50.	ίŪ	
	4,6-Dinitro-2-methylphenolI	50.	IU	
	N-Nitrosodiphenylamine (1)	10.	ľÜ	
	4-Bromophenyl-phenyletherI	10.	ΙÜ	
118-74-1	Hexachlorobenzene	10.	ΙÜ	
87-86-5	Pentachlorophenol	50.	IU	
85-01-8	Phenanthrene!	10.	10	
120-12-7	AnthraceneI	10.	IU	
84-74-2	Di-n-butylphthalateI	10.	IU	
206-44-0	Fluoranthene	10.	14	
129-00-0	Pyrene	10.	IU	
85-68-7	ButylbenzylphthalateI	10.	IU	
	3,3°-Dichlorobenzidine	20.	IU	
	Benzo(a) anthraceneI	10.	ΙŲ	
	Chrysene!	10.	IU	
117-81-7	bis(2-Ethylhexyl)phthalate	10.	10	
117-84-0	Di-n-octylphthalate!	10.	IU	
	Benzo(b)fluorantheneI	10.	וטו	
	Benzo(k) fluoranthene!	10.	ıU	
	Benzo(a) pyrenei	10.	IU	
	Indeno(1,2,3-cd)pyrene	10.	IU	
	Dibenz(a,h)anthracene	10.	ĬÜ	
191-24-2	Benzo(g,h,i)perylene(	10.	ίŪ	

(1) - Cannot be separated from diphenylamine

AR500232 1/87 Rev

## SEMIVOLATILE CREA

'S ANALYSIS DATA SHEET TENTATIVELY DENTIFIED COMPOUNDS

EFA	SAMPLE	YC.
_		

Lab Name: NET

Contract:

£9£84

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol:

1000.0 (g/mL) ML

Lab File ID: A9213

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup:

(Y/N) N

pH: . 8

0.

dec.

Dilution Factor:

1.00

Number TICs found:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	l RT	SST. CONC.	ו ג
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# 1D PESTICIDE ORGANICS ANALYSIS DATA SHEET

PAFT EPA SAMPLE NO?

Sample wt/vol: 500.0 (g/mL) ML Level: (low/med) LOW . D  % Moisture: not dec dec D  Extraction: (SepF/Cont/Sonc) SEPF D  GPC Cleanup: (Y/N) N pH: 6.0 D  CONCENT	SDG  ab Sample ID:  ab File ID:  ate Received:  ate Extracted:  ate Analyzed:  ilution Factor  RATION UNITS:  r ug/Kg) UG/L	0565-12609 07/18/91 07/23/91 08/03/91
Sample wt/vol: 500.0 (g/mL) ML Level: (low/med) LOW . D  % Moisture: not dec dec D  Extraction: (SepF/Cont/Sonc) SEPF D  GPC Cleanup: (Y/N) N pH: 6.0 D  CONCENT	ab File ID: ate Received: ate Extracted: ate Analyzed: ilution Factor	07/18/91 07/23/91 08/03/91
Level: (low/med) LOW	ate Received: ate Extracted: ate Analyzed: ilution Factor RATION UNITS:	07/23/91 08/03/91
% Maisture: not dec Dec	ate Extracted: ate Analyzed: ilution Factor	07/23/91 08/03/91
Extraction: (SepF/Cont/Sonc) SEPF D  GPC Cleanup: (Y/N) N pH: 6.0 D  CONCENT	ate Analyzed: ilution Factor RATION UNITS:	08/03/91
GPC Cleanup: (Y/N) N pH: <u>6.0</u> D	ilution Factor	<del></del>
CONCENT	RATION UNITS:	1.00
CAS ND. COMPOUND (ug/L o	r ua/Ka) UG/I	
		_
319-84-6		0. 10   U



#### U.S. EPA - CLP

			. EFA - CLP				
I I	:	INORGANIC A	1 Analysis data	SHE	ET	EP	A SAMPLE NO.
	N.						69684
ab Name: NET	ATLANTIC TH	OROFARE DI	Contract:			i	
ab Code: NET	Ca	se No.:	SAS No.	: S	ALFORI	S D	G No.: 69683
atrix (soil/w	ater): WATE	R		La	b Samp	le I	D: 23180-025
evel (low/med	l): LOW			D a	te Red	eive	d: 07/18/91
Solids:	0.	0					
Con	centration	Units (ug/1	or mg/Kg dry	ve	ight)	ug/	L DRAF
	CAS No.	Analyte	Concentration			i i	•
	i	1	<u></u>	1_1		_i <u></u> i	
	7429-90-5		30.00			P	
	17440-36-0	· · · · · · · · · · · · · · · · · · ·	26.00			IP I	
	•	Arsenic    Barium	] 2.00   84.00				
	17440-41-7	•	-				
	7440-41-7	•	2.00			i P	
	7440-70-2	=	43600.00	-		P	
	•	Chromium	3.00			iP i	
	7440-48-4	•	5.00			IP I	
	17440-50-8	Copper	19.00	131		P	
	7439-89-6	Iron	11.00	וטן		IP I	
	·	Lead	3.00				
		Magnesium				IP	
	17439-96-5					IP I	
		Mercury    Nickel	0.20			CA	
	17440-02-0	Potessium	6.00   919.00			P	
		Selenium	3.00			7	
		Silver	4.00			12	
		Sodium	25900.00			IP I	
	7440-28-0		3.00	-	W	ir i	
	•	Venedium	4.00	•		iP i	
	7440-66-6	Zinc	16.00			P	
	!	Boron	11800.00	• •		1P	
		Cyanide 	10.00	ן טן ו			
olor Before:	*	Clari	y Before:	<b>'-'</b>		Tex	ture:
olor After:		Clarit	ty After:			Art	ifacts:
Daments:							AR500235
826B-D012-0							

	INORGANIC	1 ANALYSIS DATA SHEET	EPA SAMPLE NO.
Lab Name: ETC Lab Code:	CORP.	Contract: SAS No.:	D012GW02
Matrix (soil/s	mter): WATER	Lab Sample	ID: CA8577
Level (low/med	): LOW	Date Recei	<b>ved:</b> 09/13/91
% Solids:	0		
Con	centration Units (ug/	L or mg/kg dry weight):	UE/L DRAFT
•	CAS No.   Analyte	Concentration C Q M	
	7429-90-5 Aluminum		
	7440-36-0  Antimony_		
	7440-38-2  Arsenic	<del></del>  -  -	
	7440-39-3  Barium		
	7440-41-7  Beryllium		
	7440-43-9  Cadmium		
	7440-70-2  Calcium_		
	7440-47-3  Chromium	!!!	
	7440-48-4  Cobalt		
	7440-50-8  Copper		
	7439-89-6   Iron		
	7439-92-1  Lead	2.00 0	
	7439-95-4  Magnesium		
	7439-96-5  Manganese   7439-97-6  Mercury		
	7440-02-0   Fickel		
	7440-09-7   Potassius	- -  <del>-</del>	
	7782-49-4   Selenium	<del></del> ;-;;	
	7440-22-4   Silver	<del></del> i-iii	
	7440-23-5   Sodium	i-i-i-i	
	7440-28-0 Thellium		
	7440-62-2   Vanadium	i-iii	
	7440-66-6   Zinc		
	Cymolde		
	Berry	121000	
Color Before:	Colordan Clarit	by Before: (Can) Texts	ire:
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Comments:			
	FORM	ıı-m	3/40
	- 195 - 195		AR50Q2

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

# REGION III 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

西-V TO Y14/91

NOT PELIVERABLE

**7**/

November 5, 1991

404 MAIN ST.

715 QUARRY KOAG HARLEYSVILLE, PA 19438

Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the

Remedial Investigation of the Salford Quarry Site

Dear

Samples from your home well were collected on July 18, and September 10-17, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminants listed below were detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION RANGE

Boron

6,840 - 8,240 parts per billion

According to currently acceptable EPA standards, the other substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

AR500237

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The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

## VOLATILE C INICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

69683

Contract:

ab Code: NET Case, No.: SALFORD SAS No.: SDG No.: 69683

-Matrix: (soil/water) WATER

Lab Sample ID:

ample wt/vol: 5.0 (g/mL) ML Lab File ID: E4415

DRAFT

evel: (low/med) LOW

Date Received: 7/18/91

Moisture: not dec. 100.

Date Analyzed: 7/22/91

column: (pack/cap) PACK

CAS NO.

Dilution Factor: 1.00

CONCENTRATION UNITS:

COMPOUND	(ug/L or ug/Kg) UG/L	Q

! . 74.85	3 061		1	1	!
74-87	-3	omethane	10.	IJ	1
/4-83	-3Bromom	ethane	10.	_	F
75-01	-4Vinyl	Chloride	10.		ì
1 75-00	-3Chloro	ethane	10.	IU	1
		ene Chloride	J 5.	ľ	I
	-iAceton		1 10.	IU	l l
		Disulfide	1 5.	10	1
1 75-35	-41, 1-Di	chloroethene	1 5.	IU	- 1
1 75-34	-31,1-Di	chloroethane	J 5.	IU	t
1 540-59	- <b>0</b> 1,2-Di	chloroethene (total)	1 5.	10	1
1 67-6E	-3Chloro	form	1 5.	HU	1
107-06	-21.2-Di	chloroethane	1 5.	ΙŪ	i
		inone	10.	10	i
71-55	-61.1.1-	Trichloroethane	1 5.	14	1
1 56-23	-5Carbon	Tetrachloride	i 5.		i
1 108-05	-4Vinyl	Acetate			,
		ichloromethane	i 5.	• •	i
		ichloropropane		iU	i
110061-0	-5cis-1.	3-Dichloropropene	i 5.	10	i
79-0	-6Trichl	oroethene	. 5.	iu	i
		ochloromethane	i 5.	10	i
		Trichloroethane		14	
71-4	3-2 <b>Benze</b> r	<u></u>	I 5.	ΙŪ	í
		-1.3-Dichloropropene		iu	i
	5-2		5.	iŭ	i
1 188-1	0-14-Het/	hyl-2-Pentanone		ΙŪ	i
1 591-7	8-6	anone	10.	10	i
1 127-		chlorosthene	5.	IU	1
, , , , , , , , , , , , , , , , , , ,	M-31,1,2	, 2-Tetrechloroethane	5.	IU	1
1 100-	10140		5.	IU	1
	14-4		3.	IU	
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		apopoli)	<b>.</b>	Ü	i
	Mark Control				i
		, at .			_

# VOLATILE 21 INICE ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

63683

EFA SAMPLE NO.

Lab Name: NET

Contract:

Lab Code: NET

Case No. : SALFORD SAS No. :

SDG No.: 63683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4415

DRAFT

Level: (low/med) LOW

Date Received: 7/18/91

Dilution Factor:

k Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

CONCENTRATION UNITS:

1.00

Number TICs found: 0

(ug/L or ug/Kg) UG/L

CAS NUMBER 1	COMPOUND NAME	i RT	EST. CONC.	Q
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1/87 Rev.

69683

ab Name: NET

Lab Code: NET

Contract:

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol:

1000.0 (g/mL) ML

Lab File ID: A9203

(low/med) LOW

Date Received: 7/18/31

% Moisture: not dec. 100. dec.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/26/91

GPC Cleanup:

(Y/N) N

pH: . 0 Dilution Factor:

1.00

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Ø

ø.

1	!		1	<del></del> ,
İ	108-95-2PhenolI	10.	IU	ı
ı	108-95-2Phenol  111-44-4bis(2-Chloroethyl)ether	10.	10	ι
l	95-57-6	10.	IU	ŀ
J	541-73-11,3-Dichlorobenzene	10.	IU	l
ľ	106-46-7!, 4-Dichlorobenzene	18.	ΙŲ	1
l	108-51-6Benzyl alcohol	1 <b>8.</b>	tu	1
J	95-58-11,2-Dichlorobenzene	10.	iU	1
ļ	95-48-72-Methylphenol!	18.	IU	1
3	39638-32-9bis(2-Chloroisopropyl)ether	10.	IU	1
j	186-44-5	10.	10	}
1	621-64-7N-Nitroso-di-n-propylamine_I	10.	10	1
j	67-72-1HexachloroethaneI	19.	IU	1
l	98-95-3Nitrobenzene!	10.	IU	1
j	78-59-1Isophoronei	10.	IU	1
ŀ	88-75-52-Nitrophenol	10.	10	i
)	195-67-92.4-Dimethylphenol	10.	IU	ì
ļ	65-85-6Benzoic acid	50.	IU	t
	111-91-1bis(2-Chloroethoxy)methane!	19.	ប	ı
	129-83-22, 4-Dichlorophenol	13.	IU	1
	120-82-11, 2, 4-Trichlorobenzene!	10.	ŧυ	1
	91-2 <b>0-</b> 3Naphthalene	10.	IU	ł
[	106-47-84-Chloroaniline	10.	IU	1
ļ	87-68-3Hexachlorobutadiene	18.	IU	1
J	59-58-7	10.	IU	l
ļ	91-57-62-Methylnaphthalene	10.	IU	1
J	77-47-4Hexachlorocyclopentadiene!	10.	10	1
ļ	88-86-22, 4, 6-TrichlorophenolI	10.	IU	1
j	35-95-42, 4, 5-TrichlorophenolI	50.	IU	1
	91-58-72-Chloronaphthalane	10.	IJ	ł
ı	88-74-42-NitroanilineI	50.	IU	ı
1	131-11-3Dimethylphthalate	1 <b>0.</b>	10	1
j	206-96-8Acenaphthylene	10.	IU	_!
ļ	606-28-2	10.	10	AR 5
	· · · · · · · · · · · · · · · · · · ·			

## SEMINOLATILE CREANICS ANALYSIS DATA SHEET TENTATIVE: IDENTIFIED COMPOUNDS

69683

ETA SAMPLE NO.

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.: SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Eample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9205

Level: (low/med) LOW

Date Received: 7/18/31

Moisture: not dec. 100. dec.

Date Extracted: 7/13/31

Extraction: (SepF/Cont/Sone) CONT

Date Analyzed: 7/26/91

SPC Cleanup: (Y/N) N pH: .0

0.

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

is number i	COMPOUND NAME	I RT	EST. CONC.	l Q
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1/87 Rev.

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EPA SAMPI

-4	Lab Name: CAMBRG Contract: ENVI	RON	
4	Lab Code: CAMBRG Case No.: FD414B SAS No.:	SDQ	No. :
	Matrix: (soil/water) WATER Lab S.	ample ID:	0565-12506
	Sample wt/vol: 1000 (g/mL) ML Lab F	ile ID:	
	Level: (low/med) LOW . Date !	Received:	07/18/91
_	% Moisture: not dec dec Date (	Extracted:	07/23/91
#	Extraction: (SepF/Cont/Sonc) SEPF Date	Analyzed:	08/03/91
	GPC Cleanup: (Y/N) N pH: 6.0 Dilut:	ion Factor	: _ 1.00
	CONCENTRATION COMPOUND (ug/L or ug/L	ON UNITS: /kg> <u>ug/l</u>	. G
	; ; 319-84-6alpha-8HC	i I 0	. 050:U
	319-85-7beta-BHC	1 0	. 0501U
	319-86-8delta-BHC		. 050 LU
	: 58-87-7Lindane		). 050 LU
	76-44-8		). 050 ! U
Ţ	309-00-2Aldrin 1024-57-3Heptachlor epoxide	; C	0.0501U
_	: 959-98-8Endosulfan I		0.05010
- 23	60-37-1Dieldrin	·	0.05010
	72-55-94, 4'-DDE	• !	0. 101U   1
	72-20-8Endrin	<b>)</b>	0. 10:U
مط	33213-65-9Endosulfan II	!	0. 10:U
	72-54-84, 4'-DDD	1	0. 10:0
-	: 1031-07-8Endosulfan sulfata	1	0. 10!U
	: 50-29-34, 4'-DDT	1	0.1010
	; /2-43-3	ĭ	0. 50 LU
4	: 53494-70-5Endrin ketone	<b>:</b>	0. 1010
	: 5103-71-9alpha-Chlordane	:	0. 501U 1
	5103-74-2gamma-Chlordane	į.	0. 5010 1
4	: 9001-35-2Toxaphene	:	1.010 5
	12674-11-2Araclar-1016	ŧ	0. 50 (U
	: 11104-28-2Aroclor-1221	1	0. 5010
	11141-14-5Araclar-1232	t	0. 50:U
	53469-21-9Aroclor-1242	1	0. 5010
	12672-29-6Araclar-1248	1	0. 50:U .
	11097-69-1Arecler-1254	1	1.0:0
	11096-82-5Araclar-1260	•	1. 01U
		ł	

AR500243

FORM I PEST

#### U.S. EPA - CLP

## INORGANIC ANALYSIS DATA SHEET

	EPA	SAMP	LE	NO.
ı			<b></b>	

Lab Name: NET ATLANTIC THOROFARE DI Contract:

69683

b Code: NET

Case No.:

SAS No.: SALFORD SDG No.: 69683

mtrix (soil/water): WATER

Lab Sample ID: 23180-015

Level (low/med):

LOW

Date Received: 07/18/91

Solids:

0.0

DRAFT

Concentration Units (ug/L or mg/Kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |

CAS No.	Analyte	Concentration	C	Q	М
7429-90-5	Aluminum	30.00	֓֞֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	<u></u> -	- -
7440-36-0	Antimony	15.00	ט ו	1	P
7440-38-2	Arsenic	3.00	B	Į	[ ]
7440-39-3	Barium	241.00	1	}	I P
7440-41-7	Beryllium	2.00	ַ ט	i	1P
7440-41-7	Cadmium	2.00	U		P
7440-70-2	Calcium	41200.00	1	Ì	l P
7440-47-3	Chromium	3.00	ט	}	P
7440-48-4	Cobalt	5.00	U)	ı	Į P
7440-50-8	Copper	8.00	3	ł	P
7439-89-6	Iron	11.00	U	l	P
7439-92-1	Lead	3.00	U	ì	17
7439-95-4	Magnesium	19600.00	į,	Ì	P
7439-96-5	Manganese		U	Ì	j P
7439-97-6	Hercury	0.20	U	İ	CA
7440-02-0	Nickel	6.00	<b>ט</b>	1	P
7440-09-7	Potessius	913.00	3	ļ	2
7782-49-2	Selenium	3.00	ן ט ן	W	12
7440-22-4	Silver	4.00	U	1	12
7440-23-5		18300.00			] P
7440-28-0	Thellium	3.00		•	{ <b>T</b>
7440-62-2	Vanadium	4.00		ł	i P
7440-66-6	Zine	26.00		}	P
	Boron	8240.00	1	ļ	) <b>P</b>
-	Cyanide	16.70	ן ט ן		16
	1		1	Ì	1

Color Before:

Clarity Before:

Color After:

Clarity After:

Artifacts:

Enents:

826B-D011-GW01

AR500244

FORM I - IN

		INORGANIC	1 AVALTSIS DA	TA SHEET	•	EPA SAMPLE NO.
Lab Name: FT Lab Code:		Case No.:		tract:		D011GW02
Matrix (soil	/water): WAT			Lab	Sample I	D: CA8579
Level (low/m	ed): LOW	•		Date	Receive	d: 09/13/91
% Solide:	. 0					
С	oncentration	Units (ug	/L or mg/kg	dry weig	ht): ug	/L D
	·	<u> </u>		<del>-                                    </del>	<del></del> ,	DF
	CAS No.	Analyte	Concentrati	on C Q	H	
	2522 22 2		ļ	_!-!	_!!	
		Aluminum		_!-!	-!!	
		Antimony	<u> </u>	!-!	-:!	
	7440-39-3		¦	:-:	-¦!	•
		Beryllium		─¦→¦──	-	
	7440-43-9		i ———	┷╏╼╏ <del>┈</del>	-¦¦	
	7440-70-2		i ————	:-:	-¦¦	
		Chronium	i — — —	;-;	-¦;	
	7440-48-4			i-i	-;;	
	7440-50-8			i-i	-i-i	
	17439-89-6			i-i	-ii	
	17439-92-1	Leed	2.0	00 di		
		Magnesius	1	_ _ _	<u> </u>	
		Manganese			[  <u> </u>	
	7439-97-6					
	7440-02-0		! <del></del>	_!-!	<u>.!!</u>	
		Potessium	<u> </u>	-!-!	-!!	
•		Selenium	! <del></del>		-!!	
	7440-22-4  7440-22-5		:	╼╏╼╏╼╼═	-{{	
	7440-23-5  7440-28-0	Thellium	·	-{-}-	-¦{	
	7440-62-2			-:-:	-;;	
	7440-66-6	Zine	i <del></del>	╼╏╼╏╼━	-¦ <b></b> ¦	
		Cyenide		-i-i	-i —i	
		Berren	6840.	<u> </u>	Pi	
Color Before	ce.a.		ity Before:		Texture	n.:
						<del></del>
Color After:	Colorba	Clar:	ity After:	معد	Artifa	-te:
Comments:						
		<del></del>				
		FO	MI - IN			3/90
						AR50026

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

#### 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

710 Cressman Road Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

#### Dear

A sample from your home well was collected on July 18, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and no contaminants were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions.

Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

acocc XCC

Cesar Lee (3HW21)
Remedial Project Manager
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

## VOLATILE ORGANICS ANALYSIS DATA SHEET

IPA SAMPLE NO.

63754

Contract:

Lab Code: NET Case No.: SALFORD SAS No.:

SDG No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E4425 DRAFT

Level: (low/med) LOW

Date Received: 7/13/31

k Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)		G	2
1			<del></del>	1	,
1 74-87-3	Chloromethane	1	10.	10	i
1 74-83-3	Bromomethane		10.	iU	1
1 75-01-4	Vinyl Chloride	!	10.	ŧŪ	ļ
75-00-3	Chloroethane	1	10.	IU	1
1 75-09-2	Methylene Chlorid	deI	5.	ΙÜ	1
1 67-64-1	Acetone		10.	ľÜ	1
75-15-8	Carbon Disulfide	1	5.	ľÜ	1
1 75-35-4	1,1-Bichlorosther	NB	5.	IU	i
1 75-34-3	1, 1-Dichloroether	ne!	5.	(U	1
1 540-59-0	1.2-Dichloroether	ne (total)!	5.	IU	1
1 67-56-3	Chloroform		5.	IU	- 1
! 107-06-2	1,2-Dichloroethar	neI	5.	ΙÜ	1
1 78-93-3	2-Butanone	1	10.	ΙÜ	- 1
1 71-55-6	1,1,1-Trichloroet	thanei	5.	14	1
1 56-23-5	Carbon Tetrachlor	idel	5.	ιu	Ţ
108-05-4	Vinyl Acetate		10.	14	- 1
1 75-27-4	Bromodichlorometh	laneI	5.	IU	- 1
1 78-87-5	1,2-Dichloropropa	ineI	5.	IU	- 1
110061-01-5	cis-1,3-Dichlorop	propenei	5.	IU	1
73-01-6	Trichloroethene		5.	IU	1
1 124-48-1	Dibromochloromet:	lane!	5.	ľŪ	t
73-00-5	1, 1, 2eleichloroet	haneI	5.	IU	ı
	Benzene		5.	ıU	1
110061-02-6	Trans-1, 3-Dichlor	ropropene!	5.	IU	- 1
1 75-25-2	Bromoform		5.	IU	1
1 108-10-1	Bromofors 4-Methyl-2-Pentar	10118!	10.	łU	ı
591-78-6	2-Hexanone		10.	10	1
1 127-18-4	Tetrachloroethene	P1	5.	ľÜ	ł
79-34-5	i, 1, 2, 2-Tetrachlo	roethaneI	5.	IU	- 1
1 108-88-3	Toluene	1	5.	ľÜ	1
108-98-7	Chlorobenzene		5.	14	1
1 100-41-4	Ethylbenzene		5.	IU	l
1 100-42-5	Styrene		5.	IU	J
1330-20-7	Xylene (total)		5.	ľ	1
1				_'	!

### VOLATILE OR HICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

63754	

EPA SAMPLE NO.

Lab Name: NET Lab Code: NET Case No.: SALFORD SAS No.:

Contract:

SDG No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4425

**DRAFT** 

Level: (low/med) LOW

Date Received: 7/19/91

x Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	I RT	I EST. CONC.	Q
######################################				2222
1  _ 2  _		'	' <del></del>	
<b>-</b> (		<u> </u>	` <u> </u>	
			!	
51			'	
6l_		!	!	
<u>7</u> •!_		! <i>-</i>	!	
			ا <del></del> -	
	<del></del>	-\ <u>-</u>	1	
0		'	' <del></del> -	
٠٠ 2 ا		<u>;</u>	' <del></del> '	
<b>-</b>				
_			I	
5			·	
6		!	<u> </u>	
<del>7</del> •!_		_!	!	
		!	!	
9			·	¦ <del></del> -
0   1		¦	` <u> </u>	
2i_		:	'	<u> </u>
3				
4			1	-
5		1	!	·
6		!	!	<u> </u>
7		-!	·	!
:8		!	!	<u>'</u>
!9!!  0!	<del></del>	! <i>-</i>	!	<u>'</u>

AR500249 1/87 Rev.

FORM I VOR-TIC

## SEMIVOLATILE ORGANICE ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Names NET

Contracti

Lab Codes NET

Case No.: SALFORD SAS No.:

SDG No. : 59797

Matrix: (soil/water) WATER

1888.8 (g/mL) ML

Lab Sample ID: Lab File ID: F5756

DRAFT

Level: (law/wed) LOW

Bample wt/vol:

Date Received: 7/19/91

% Moisture: not dec. 188. dec. 8.

Date Extracted: 7/23/91

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanups (Y/N) N

pHs . 8

Dilution Factors

1.00

(	CAS NO.	COMPOUND	CUQ/L or ug/Kg) U		a	Ì
١-					1	_
!	194-95-2	Phenol	I	18.	IU	
1	111-44-4		dent fundament	1.0	111	

1	1		1	1
1 196-95-2		18.	IU	ı
1 111-44-4	bis(2-Chloroethyl)ether	18.	ΙÜ	- 1
95-57-8	2-ChiorophenolI	18.	14	- 1
1 541-73-1	1, 3-Dichlorobenzene	18.	ŧЩ	- !
1 196-46-7	1, 4-Dichlerobenzene	10.	IŲ	- 1
1 190-51-6	Benzyl alcohol	19.	iU	ŧ
95-54-1	1, 2-Dichlorobenzane	i e.	ΙÜ	- (
1 95-48-7	2-Methylphenol	10.	ΙŪ	1
39638-32-9	bis(2-Chloroisopropyl)sther	10.	14	f
1 186-44-5	4-Methylphenoli	10.	ίΠ	- 1
1 621-64-7	N-Nitroso-di-n-propylasine_1	10.	14	1
	HexachloroethaneI	10.	iu	i
98-95-3	Nitrobensene	16.	tu -	1
78-59-1	lsophorone)	19.	טו	1
88-75-5		10.	14	ſ
1 105-67-9	2, 4-Qimethylphenol!	18.	IU	- 1
15-65-6	Denzoie acid	50.	14	1
	bis(2-Chleroethoxy)methane_i	10.	14	- 1
129-63-2	2, 4-DighterophenoiI	10.	10	- 1
120-02-1	1, 2, 4-Trichlorobenzene	10.	וטו	1
71-29-3	NaphthalensI	18.	!U	- ;
1 186-47-4		10.	i U	1
87-68-3	Hexachlorobutadione	18.	IU	- 1
59-58-7	4-Chioro-3-sethylphenol	10.	IU	- 1
1 31-57-6	E-MethylnephtheleneI	16.	IU	1
1 77-47-4	Hexachlorocyclopentadiene	10.	IU	ş
1 44-06-2	E, 4, &-Trichlorophenol	18.	IU	- 1
1 95-95-4		50.	IU	1
	E-Chloronephthalane	10.	: 3	÷
	2-Nitroaniline	50.	וטו	1
131-11-3	Dimethylphthalate	19.	IU	•
		i D.	ĮŲ	t
1 694-20-2	2, &-Dinitrotoluene	18,	IU	1

## SEMIVOLATILE CREAKICS ANALYSIS DATA SHEET

69754

LAB NAMO: NET

Contracts

Lab Code: NET Case No. : SALFORD BAS No. :

508 No. 1 69797

Matrixs (soll/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol:

1866.8 (g/ML) ML

Lab File ID: F5758

Level: (low/med) LOW

Date Received: 7/19/91

x Moisture: not dec. 188.

dec.

Date Extracted: 7/23/5:

Extraction: (SepF/Cont/Sone) CONT

Date Analyzed: 7/27/91

GPC Cleanup:

(Y/N) N

gHe

Dilution Factors

1.00

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or u	BAKE) MBAF	2
77-09-2	3-Nitrosniline		_i <b>50.</b>	Į
43-32- <del>9</del>	Acenaphthene		_1 18,	IU
51-28-5	2, 4-Dinitrophe	nol	_i 50.	IU
199-92-7	4-Nitrophenol		_i 50.	IU
132-64-9	Dibensefuran		_1 10.	14
	2, 4-Dinitrotol			IU
84-66-2	Diethylphthala	te	_1 10.	IU
7 <b>005-</b> 72-3	4-Chlorophenyl	-phenylether_	_1 10.	IU
86-73-7	F1uerene			14
	4-Nitroaniline		_i 50.	10
534-52-1	4, 6-Dinitro-2-	methy i phenol_	58.	:u
86-30-6	N-Nitrosodipha:	nylamine (1)_	_  19.	10
191-33-3	4-Brosophenyl-	phonylether _	_i 10.	10
118-74-1	Hexach Lorobenz	ene	_1 18.	14
67-66-5	Pentach Loropha	nel	_i 54.	ĮŲ.
85-61-6	Phanenthrene		<del>-</del>	IU
128-12-7	Anthracene		_1 10.	10
84-74-8	Di-m-butylphth	elate	i 10,	IÜ
286-44-6	Fluorenthene		_1 1 <b>8.</b>	10
129-00-0	Pyrene		_1 16.	lu
45-68-7	Butylbensylpht	halate		16
91-94-1	3, 37 -Diehlerob	enzidine	_i 29.	IU
	Bengo (a) anthra			IU
218-01-9	Chrysene		1 19.	113
117-61-7	bie(8-Ethylhex	vil phthalate	10.	IU
117-84-6	DI-n-estylphth	alato	10.	IU
285-99-8	Benzo(b) fluore	nt hone	10.	IÙ
287-24-9	Benze (k) fluore	nthene	18.	IU
50-32-4	Benzo (a) pyrene		10.	10
193-39-5	Indens (1, 2, 3-c	d) syrane		iŭ
53-70-3	Dibenz (a, h) ant	hracene	10.	ĬŬ
191-24-2	Benze (g, h, 1) pe	eviens	10.	iŪ

AR500251

()) - Cannot be separated from diphenylamine

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 69754

Lab Name: NET

Contract:

Lab Code: NET

Case No. 1 SALFORD SAS No. 1

308 No. 1 69797

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1998.8 (g/mL) ML

Lab File ID: 75758

DRAFT

Level: (low/wed) LOW

Date Received: 7/19/91

x Moisture: not dec. 120.

Date Extracted: 7/23/91

Extraction: (SepF/Cont/Sone) CONT

Date Amalysed: 7/27/91

GPC Cleanups (Y/N) N

pHs . #

Dilution Factors

1.00

Number TICs found: 3

CONCENTRATION UNITS: (up/L or up/Kg) US/L

	COMPOUND NAME	RT		
1		•		
3.		!	 	
4		·	! ————!	
		<u> </u>	];	
7				
<b>4.</b>		!	!	
			'' }	
11.			!	
12t		¦	¹	
14				
15		<u> </u>	<u> </u>	
17		l	' سميندست . ا	
[ <b>8</b> ]		!	!!	
29		'	<u> </u> ;	
21		!	!!	
<b>23.</b>	در سین برای از است بیشتری از است بیشتری از است بیشتری از است بیشتری از است بیشتری از است بیشتری از است بیشتری	<u>'</u>	}	
24			!	
25		<u> </u>	ا	
<b>27.</b>				
28		<u> </u>	!!	
		t	¹	

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

500 EPA SAMPLE NO

4	Lab Na	me:	CAMBR	G			_ Cor	tract:	ENV	LRON	¦,	DO 1	/ GWO
	Lab Co	d <b>e</b> :	CAMBR	G	Case No	.: FD414	<u> 18</u> SA	45 No. :			SDG	No. : ,	
	Matriz	: (1	soil/w	ater	) WATER				Lab !	Samp )	e ID:	0565	-12619
_	Sample	wt/	/vol:		1000	(g/mL)	ML		Lab (	File	ים:		
U	Level:		(104/	(med)	<u>ron</u>				Date	Rece	ived:	07/:	9/91
_	% Mo15	ture	e: not	: dec	-	dec.			Date	Extr	ected.	07/2	3/91
	Extrac	tion	T: (	SepF	/Cont/So	nc)	<u>SEPF</u>		Date	Anali	yzed:	08/0	4/91
	GPC C1	eanu	J P :	(Y/N	) <u>N</u>	pH:	هـ ٥		Dilu	tion (	Factor	-1	00
4		CAS	3 NO.		COMP	QUND		CONCEN (ug/L			NITS: UG/L		a
ű	; ;	319 319 58-	?-85-7 ?-86-5 -8 <b>?</b> -9-	/ ]	alph beta delt Lind	-BHC a-BHC ane				1 1	0.	05011	: ن : ك
	; ;	309 100 959	9-00-2 24-57- 9-98-6	} -3 }	Hept Aldr Hept Enda	in_ achlor ( sulfan )	poxide	)		_   -	0. 0.	050:0 050:0 050:0	<i>3</i> ;
		60-	-57 <i>-</i> 1 - -55-9 -		Diel 4,4' Endr Endo	drin -DDE				_;	(	). 10   U ). 10   U ). 10   U	J ;
<b>الله</b>		1 72- 1 10: 1 50-	-54-8- 31-07- -29-3-	8	4, 4 ′ Endo 4, 4 ′	-DDD sulfan ( -DDT	ulfate	·	<del></del>	-\ -\	0	), 1010 ), 1010 ), 1010	; ; ;
		: 534 : 51(	494-7( 03-71-	)-5 -9	Meth Endr alph gamm	in ketor	ne			-: -: -:	(	), 5010 ), 1010 ), 5010	;
	,	800	01-35- 674-1:		Toxa Aroc Aroc	phene lor-1016	<b>5</b>			_; _; _;	(	3, 50 ; t 1, 0 ; t 0, 50 ; t 0, 50 ; t	, , , , , , , , , , , , , , , , , , ,
	1	124	469-29 672-29	-9 ?-6	Ardc Ardc 	1or-1240 1or-1240				- 1 - 1	•	0, 50 ; ( 0; 50 ; ( 0, 50 ; (	۱ : ر
Ü					Aroc					-! -!		1.011	



#### U.S. EPA - CLP EPA SAMPLE NO. INORGANIC ANALYSIS DATA SHEET 69754 ab Name: NET ATLANTIC THOROFARE DI Contract: ab Code: NET Case No.: SAS No.: SALFORD SDG No.: 69683 trix (soil/water): WATER Lab Sample ID: 23180-125 Level (low/med): LOW Date Received: 07/19/91 Solide: 0.0 Concentration Units (ug/L or mg/Kg dry weight): UG/L DRAFT CAS No. Concentration | C | Analyte im i 17429-90-5 | Aluminum 30.00 | 0 | l P 17440-36-0 | Antimony 28.00131 I P |7440-38-2 | Arsenic 2.00 | 3 | IF 17440-39-3 | Barium 67.00 B |7440-41-7 |Beryllium| 2.00 | 0 | |7440-41-7 | Cadmium 2.00101 35200.00| | |7440-70-2 | Calcium P |7440-47-3 | Chromium 3.00 | 11 |7440-48-4 |Cobalt 5.00 | 0 | | P |7440-50-8 |Copper 11.00 | B | I P 17439-89-6 | Iron 11.00 | 0 | |7439-92-1 |Lead 3.00 | 0 | |7439-95-4 |Magnesium| 12200.001 1 |7439-96-5 |Manganese| 2.00 | 0 | |7439-97-6 |Mercury CAI 0.20101 |7440-02-0 |Nickel 6.00101 |7440-09-7 |Potassium| 635.00 | B | P 17782-49-2 3.00 | 0 | 17 17440-22-4 Silver 4.00 | 01 l P 17440-23-5 7700.00 7440-28-0 3.00 | 0 | |744G-62-2 | Vanadium 4.00 | 0 | 38.001 1 7440-66-6 Zine I P Boron 588.001 [ P Cyanide 10.40 U I C lor Before: Clarity Before: Texture: Color After: Clarity After: Artifacts: BRents: AR500254 826B-D017-GW01

FORM I - IN

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 841 Chestnut Building

Philadelphia, Pennsylvania 19107

Office of Superfund
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257 Mail Code 3HW21

November 5, 1991

Mr 221 Park View Court Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the Remedial Investigation of the Salford Quarry Site

Dear M:

Samples from your home well were collected on July 18, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminants listed below were detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION RANGE

Antimony

Not Detected - 308 parts per billion

According to currently acceptable EPA standards, the other substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

Consideration is currently being given to collecting an additional sample from your well. You will be contacted 100255 further analysis of the available data indicates that resampling is warranted.

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet Antimony Fact Sheet

cc: Bill Foster, Drinking Water Contact

THA SAMPLE NO.

69686

ao Name: NET

Contract:

ab Code: NET Case No.: SALFORD SAS No.: SDG No.: 69683

matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

COMPOUND

Lab File ID: E4420

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100.

CAS NO.

Date Analyzed: 7/22/91

olumn: (pack/cap) PACK

Dilution Factor: 1.00

CONCE	ITRE	NOITE	U	:ETIN	
(ug/L	or	ug/Kg	1)	UG/L	

		1	ŀ
74-87-3	Chloromethane	1 10.	10
74-83-9	Bromomethane	1 10.	IU
75-01-4	Vinyl Chloride	1 10.	ľ
75-00-3	Chloroethane	10.	14
	Methylene Chloride		ΙŲ
67-64-1	Acetone	1 10.	iU
	Carbon Disulfide		IU
75-35-4	1,1-Dichloroethene	I 5.	IU
75-34-3	1,1-Dichloroethane	1 5.	IU
540-53-0	1,2-Dichloroethene (total)	1 5.	IU
67-66-3	Chloroform	<u> </u>	ıu
107-06-2	1,2-Dichloroethane	· l S.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	l,I,I-Trichloroethane	<u> </u>	10
56-23-5	Carbon Tetrachloride	<u> </u>	łIJ
108-05-4	Vinyl Acetate	<u> </u>	IU
75-27-4	Bromodichloromethane_	i 5.	i U
78-87-5	1,2-Dichloropropane	I 5.	IU
0061-01-5	cis-1,3-Dichloropropene	I 5.	10
79-01-6	Trichloroethene	I 5.	IU
	Dibromochloromethane		ıu
79-00-5	1.1.2-Trichloroethane	i 5.	IU
71-43-2	Benzene Trans-1,3-Dichloropropene	i 5.	IÜ
0061-02-6	Trans-1. 3-Dichlorogropene	I 5.	IU
75-25-2	Bronoform	i 5.	IU
108-10-1	4-Methyl-2-Pentanone	1 10.	1Ū
	2-Hexanone		IÜ
127-18-4	Tetrachloroethene	<u> </u>	IÜ
	1, 1, 2, 2-Tetrachloroethane		ŧŪ
108-88-3	Toluene	i 5.	IŪ
188-98-7	Chlorobenzene	1 5.	IU
	Ethylbenzene		iU
	Styrene		IU
			· <del>-</del>

AR50025%

# VOLPTILE COMMICS ANALYSIS DATA SHEET

TENTATIVE IDENTIFIED COMPOUNDS

63686

ERA BAMPLE NO.

ab Name: NET

Contract:

Lab Code: NET Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4420

. Level: (low/med) LOW

Date Received: 7/18/91

Moisture: not dec. 100.

Date Amalyzed: 7/22/91

Column: (pack/cap) PACK

Number TICs found:

Dilution Factor: 1.00

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

	<del></del>		<del></del>	
CAS NUMBER	COMPOUND NAME	   RT    ≠=≠≈≈≈≈	EST. CONC.	2
1.		 		
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4,				
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19	<del></del>		<del></del>	
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13.				
14				
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171		1		
18		!		
19	<del></del>			
20		<u>_</u>		
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AR500258 1/87 Rev.

FORM I VOA-TIC

# SEMINOLATILE DRUMNICS ANALYSIS DATA SHEET

ERA SAMPLE NO.

69686

Lab Hame: NET

Contract:

SDG No.: 67583

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: A9215

Lab Code: NET Case No.: SALFORD SAS No.:

Level. (low/med) LOW

CAS NO.

Date Received: 7/19/91

x Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Amalyzed: 7/27/91

COMPOUND

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CONCENTRATION UNITS:

•								
	u D	/L	or	ug	/Ka)	UG	ル	Q

<u> </u>	!		ı	
108-95-2	PhenolI	10.	l U	
111-44-4	bis(2-Chloroethyl)ether!	10.	ľ	
35-57-8	2-Chiorophenol	10.	18	
541-73-1	1,3-Dichlorobenzene	10.	IU	
106-46-7	1, 4-Dichlorobenzene	10.	IU	
100-51-6	Benzyl alcohol	10.	ΙU	
95-50-1	1, 2-Dichlorobenzene	10.	IU	
35-48-7	2-Methylphenol	18.	10	
9638-32-9- <del></del> -	bis(2-Chloroisopropyl)ether	10.	ΙÜ	
106-44-5	4-Methylphenoll	10.	18	
	N-Nitroso-di-n-propylamine	10.	រប	
	HexachloroethaneI	10.	ľŪ	
	Nitrobenzene	10.	lU	
78-59-1	IsophoroneI	10.	IU	
88-75-5	2-NitrophenolI	10.	IU	
105-67-9	2,4-Dimethylphenol	10.	IU	
65-85 <b>-0</b>	Benzoic acid!	50.	10	
111-91-1	bis(2-Chloroethoxy)methane	10.	IU	
120-63-2	2,4-DichlorophenolI	10.	ŧυ	
	1,2,4-Trichlorobenzene	18.	IU	
91-2 <b>0-3</b>	Naphthalene!	10.	ΙŲ	
		1 <b>0.</b>	IU	
	Hexachlorobutadiene	1 <b>0.</b>	IU	
	4-Chloro-3-methylphenol	10.	IU	
	2-Methylnaphthalene	10.	IÜ	
	Hexachlorocyclopentadiene!	10.	IU	
	2,4,6-Trichlorophenol	10.	IU	
	2,4,5-Trichlorophenol!	50.	ΙÜ	
91-58-7	2-Chloronaphthalene	10.	IU	
	2-Nitroaniline	50.	t U	
131-11-3	Dimethylphthalate	10.	IU	
208-96-8	Acenaphthylenei	10.	เบ	
686-28-2	2,6-Dinitrotoluene	10.	14	

EFR BAMPLE NO.

Lab Name: NET

Contract:

53585

Lab Code: NET Case No.: SALFORD SAS No.:

SDG No.: 67683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9215

Level: (low/med) LOW

Date Received: 7/18/91

⊀ Moisture: not dec. :00. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH: .0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION	UNITS:		
		ragyr or agyk	g) UG/L		Q
33-03-2	3-Nitroaniline	1		1	<del></del> ,
83-32-9	3-Nitroaniline		50	•	!
31-28- <b>4-</b> -			10		!
100-02-7		·1	50		Į.
			50		!
121-14-2	2 A-B		18	•	!
84-66-2		ne	10		1
7005-72-3					1
86-73-7		renylether	10,		1
100-01-6			10.	. •	1
534-52-1			10.		1
86-30-6		hylphenol	50.		ł
101-55-3		amine (1)	50.	. •	1
118-74-1	Nitrosodiphenyl 4-Bromophenyl-phe	nylether	10.	וו	1
A7-A6-8	Hexachlorobenzene		10.	10	1
A5-01-0-	Pentachlorophenol		16.	ıu	1
			50.	10	1
84-74-2	Anthracene		10.	ľU	1
206-44-0-	Di-n-butylphthalat		10.	ľŪ	1
129-00-0	Pyrene	·	10.	ΙÜ	1
85-68-7	Pyrene	'	10.	ıU	1
31-94-1-	Butylbenzylphthala	te	10.	וטו	1
56-55-7	Butylbenzylphthala 3,3°-Dichlorobenzi	dine	10.	IU	1
21A-01-0	3,3'-Dichlorobenzi Benzo(a)anthracene		20.	10	1
117-A1-7	Chrysene		10.	IU	1
		hthalate	10.	ĮŲ	1
05-39-2-		,,	10.	IU	1
97-09-0-	Benzo(b) fluoranther	```	10.	IU	1
ve-j 50-72-0	Benzo(b) fluoranther Benzo(k) fluoranther Benzo(a)	- <u></u> !	10.	טו	1
77-76-6	Benzo (a) pyrene	-	10.	ıu	1
		ene	10.	IU	1
		ne	10.	10	1
/4 ~69 <b>~6</b> ~~~.	Dibenz(a,h)anthrace Benzo(g,h,i)perylen		10.	יוו	1
Canaca			10.	ıu	!AR5002
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### TEEHE ATAD EIEVANA CUATA SHEET SOUNDEMED CELETRED LA FOLLETRE

Lab Name: NET

Contract:

EBEBE

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9215

Level: (low/med) LOW

Date Received: 7/18/91

x Moisture: not dec. 100. dec.

Number TICs found:

Date Extracted: 7/19/91

Extraction: (SapF/Cont/Sone) CONT

Date Analysed: 7/27/91

GPC Cleanup: (Y/N) N

0. :Hc

ø.

Dilution Factor:

1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	   RT 	EST. CONC.	1 0				
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AR500261

FORM I SV-TIC

1/87 kev.

4		PESTIC	ID IDE GRGANICS ANALYSIS DA	TA SHEET DRAFT	EPA SAMPLEO
_	Lab N	lame: <u>CAMBRG</u>	Con	tract: ENVIRON	: D013GW11
	Lab C	ode: CAMBRO	Case No. : FD414B SA	S No. : SDG	No. :
<u>.</u>	Matri	x: (soil/wat	T) WATER	Lab Sample ID:	0565-12611
_	Samp l	(e_ut/val:	1000 (g/mL) ML	Lab File ID:	
	Level	: (low/me	) <u>LOH</u> .	Date Received:	07/18/91
	% Mo1	sture: not di	dec	Date Extracted	: <u>07/23/71</u>
_	Extra	iction: (Se	F/Cant/Sanc) <u>SEFF</u>	Date Analyzed:	08/03/91
	GPC C	leanup: (Y)	(N) N pH: 60	Dilution Facto	r: <u>1 00</u>
 4		CAS NO.		CONCENTRATION UNITS. (ug/L of ug/Kg) UG/L	
		: 319-85-7 : 319-86-8 : 58-89-9 : 76-44-8	alpha-BHCbeta-BHCdelta-BHCLindaneHeptachlor		0.050!U 0.050!U 0.050!U 0.050!U
4		1024-57-3 1959-98-8 160-57-1 172-55-9	Heptachlor epoxideEndosulfan IDieldrin4,4'-DDEEndrin		0.050!U : 0.050!U : 0.050!U : 0.10!U :
٤		: 72-54-8 : 1031-07-8 : 50-29-3 : 72-43-5	4,4'-DDD Endosulfan sulfate 4,4'-DDT Methozuchlor		0.10;U ; 0.10;U ; 0.10;U ; 0.10;U ;
		: 53494-70-5- : 5103-71-9 : 5103-74-2	Endrin ketone alpha-Chlordane gamma-Chlordane		0 10 U : 0 50 U : 0 50 U : 1

12674-11-2----Arecler-1016

11097-69-1----Aroclor-1254

AR500262

1.0:0 1.0:U

0.50:U 0.50:U 0.50:U 0. 50:U 0.50:U

#### U.S. EPA - CLP

		0.5	. EPA - CLP		
		INORGANIC	l Analysis data	SHEET	EPA SAMPLE NO.
					1 69686
ab Name: NET	ATLANTIC TH	OROFARE DI	Contract:		
ab Code: NET	Ca	se No.:	SAS No.	: SALF	ORD SDG No.: 69683
atrix (soil/w	ater): WATE	R		Lab S	ample ID: 23180-045
evel (low/med	l): LOW			Date	Received: 07/18/91
Solids:	0.	0			
Con	centration	Units (ug/1	L or mg/Kg dry	weigh	E): UG/L DRAFT
	T	<del></del>	T	<del>                                      </del>	11
	CAS No.	Analyte	Concentration	ici q	M
	7429-90-5	Aluminum	30.00	¦&¦	P-
		Antimony	15.00		le i
	17440-38-2	Arsenic	2.00		i P
	7440-39-3	Barium	211.00		ip i
	7440-41-7	Beryllium			IP I
	7440-41-7	Cadmium	1 2.00	וטו	P
	7440-70-2	Calcium	51400.00	1 1	P
	17440-47-3	Chromium	3.00	-	(P (
	7440-48-4	Cobalt	5.00	וֹטוֹ	i P
	17440-50-8	Copper	8.00	131	P
	7439-89-6	Iron	64.00	i B i	P
	17439-92-1	Lead	3.00		1 <b>7</b>
	7439-95-4	Magnesium	20800.00	1 1	P
	17439-96-5	Manganese	2.00	וטו	P
		Mercury	0.20	-	C <b>V  </b>
	· _	Nickel	6.00		P
	•	Potessium			i P
	17782-49-2	Selenium	3.00		<b>                                   </b>
	17440-22-4	Silver	4.00		IP I
	17440-23-5	Sodium	11500.00		IP I
	17440-28-0	Thellium		U   W	[ F ]
	17440-62-2	Venedium	4.00		IP
	17440-66-6	Zine	43.00   250.00	•	(P (
	1	Boron  Cyanide	10.00		P
	}	i vyentee	1 10.00	1	1 1
olor Before:	·	Clari	y Before:	''	Texture:
olor After:		Clarit	ty After:		Artifacts:
omments:					
826B-D013-G	W11 .				AR5002

63685

Lab Name: NET

Contract:

ab Code: NET Case No.: SALFORD SAS No.: SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4413

Level: (low/med) LOW

Date Received: 7/18/91

DRAFT

k Moisture: not dec. 100.

Date Analyzed: 7/22/91

column: (pack/cap) PACK

Dilution Factor: 1.08

		CONCENTI	RATION U	NITS:	
CAS NO.	COMPOUND		ug/Kg)		
I	·		1		1
74-87-3	Chloromethane		!	10.	EU
74-83-9	Bromomethane_		1	10.	l U
75-01-4	Vinyl Chloride	•	1	10.	10
75-00-3	Chloroethane_		1	10.	lü
75-09-2	Methylene Chic	oride		5.	ΙŪ
67-64-1	Acetone		1	10.	10
75-15- <b>6</b> -	Carbon Disulf:	ide		5.	ΙÜ
75-35-4	1,1-Dichloroet	thene		5.	IU
75-34-3	1, 1-Dichloroet	thane_		5.	10
540-59-0	1, 2-Dichloroet	thene (total	)	5.	iŭ
	Chloroform			5.	IU
	1,2-Dichloroei	thane		5.	iŭ
	2-Butanone			10.	iu
71-55-6	1, 1, 1-Trichlor	coethane		5.	IU
	Carbon Tetraci			5,	iu
	Vinyl Acetate			10.	iu
	Browodichloro			5,	10
	1, 2-Dichloropy			5. 5.	iu
	cis-1,3-Dichlo			5.	10
	Trichloroether			5.	10
124-48-1	Dibromochlorom		<del></del> '	5.	ייו
	1, 1, 2-Trichlor		<del></del> ¦	5.	111
71-43-2			—¦	5.	IU
	Trans-1, 3-Dich	1000000000	<del></del> '	5.	iu
	Bromoform	itoropropene	' <b></b> '	5. 5.	10
	4-Methyl-2-Per	*****	<b></b> ¦	1 <b>0.</b>	10
591-78-6	2-Hexanone	it anone	<del></del> :	7.27	·
127-18-4	Tetrachloroeth	1000		10.	ינו טו
	1, 1, 2, 2-Tetrac		<del></del> ¦	5.	iU
				5.	14
	Toluene			5.	
	Chlorobenzene			5.	ΙŪ
100-41-4	Ethylbenzene_		<del></del> !	5.	ΙÜ
100-42-5	Styrene	<del></del>	!	5.	IU
1330-20-7	Xylene (total)		<u>!</u>	5.	ĮŪ

# VOLATILE OF MICS ANALYSIS DATA SHEET

TENTATIVEL, IDENTIFIED COMPOUNDS

Lab Name: NET

Case No.: SALFORD SAS No.:

Contract:

63685

SDG No.: 69683

EFF SAMPLE NO.

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab Code: NET

Lab File ID: E4419

DRAFT

121

Level: (low/med) LOW

Date Received: 7/18/91

moisture: not dec. 100.

Date Analyzed: 7/22/91

Lolumn: (pack/cap) PACK

Number TICs found:

Dilution Factor: 1.00

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	l RT	EST. CONC.	1 @
			2#2#2#2#2#2# 	#### 
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		_!	l	<u> </u>
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AR500265

FORM I VOA-TIC

1/87 Rev.

EPA SAMPLE NO.

Lab Name: NET

Contract:

F 75.95

Lab Code: NET Case No.: SALFORD SAS No.: SDG No.: 63683

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: A9214

Level: (low/med) LOW

Date Received: 7/18/31

Moisture: not dec. 100. dec. 0.

CAS NO.

Date Extracted: 7/19/91

extraction: (SepF/Cont/Sonc) CONT

COMPOUND

Date Analysed: 7/27/31

GPC Cleanup: (Y/N) N

pH: .0 Dilution Factor:

CONCENTRATION UNITS:

(មន្ត	/L	or	ug/Kg)	UG/L	G
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EFA SAMPLE NO.

67685

Lab Name: MET

Contract:

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab Code: NET

Lab File ID: A3214

DRAFT

Level: (low/med) LOW

Date Received: 7/18/91

g Moisture: not dec. 100. dec.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sone) CONT

Date Analyzed: 7/27/31

GPC Cleanup: (Y/N) N

pH: .0

Dilution Factor:

1.00

CONCENTRATION UNITS: (us/L or us/Kg) US/L

CAS NO.	COMPOUND (ug	/L or ug/Kg) UG/L	Q 
33-03-2	3-Nitroaniline	! 50.	10
83-32-9	Acenaphthene	1 10.	IU
	2.4-Dinitrophenol	1 50.	ΙŪ
		1 50.	IU
132-64-9	Dibenzofuran	1 10.	١U
121-14-2	2,4-Dinitrotoluene		IU
	Diethylphthalate		មេ
7005-72-3	4-Chlorophenyl-pheny	lether_f 10.	ıu
86-73-7	Fluorene	1 10.	ιu
	4-Nitroanilina	1 50.	IU
	4,6-Dinitro-2-methyl		10
86-3 <b>0-6</b> -	N-Nitrosodiphenylami	ne (1)! 10.	ľÜ
101-55-3	4-Bromophenyl-phenyl	etherl 10.	ΙÜ
	Hexachlorobenzene		יוו
	Pentachlorophenol _		IU
85-01-8	Phenanthrene	i 10.	ıu
120-12-7	Anthracene	10.	IU
	Di-n-butylphthalate		!U
206-44-0	Fluoranthene	1 10.	18
129-00-0	Pyrene	I 10.	IU
85-68-7	Butylbenzylphthalate	1 10.	IU
91-94-1	3,3°-Dichlorobenzidi	neI 20.	יטו
	Benzo(a) anthracene_	t 10.	1 🔱
218-01-9	Chrysene	I 10.	IU
117-81-7	bis(2-Ethylhexyl)pht	halate_1 10.	וט
117-84-0	Di-n-octylphthalate	t 10.	וט
205-93-2	Benzo(b)fluoranthend	10.	IU
	Benzo(k) fluoranthend		łU
	Benzo (a) pyrene		IU
193-39-5	Indeno (1, 2, 3-cd) pyre	me! 10.	!U
	Dibenz (a, h) anthracer		IU
	Benzo(g,h,i)perylene		IU

## SEMINGUATILE OFFICE ANALYSIS DATA SHEET TENTATIVE IDENTIFIED COMPOUNDS

Case No.: SALFORD SAS No.:

63685

EPA SAMPLE NO.

Lab Name: NET

Lab Code: NET

Contract:

SDG Na.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Eample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A3214

Level: (low/med) LOW

Date Received: 7/18/91

k Moisture: not dec. 188. dec. 9.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

SPC Cleanup: (Y/N) N pH: .0

Dilution Factor: 1.20

Number TICs found: 8

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Cas number   	COMPOUND NAME	RT	EST, CONC.	; !Q !****
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30				H

FORM I SV-TIC

1/87 Rev.

: 50-29-3-----4,4'-DDT

: 6001-35-2-----Taxephene\_

: 12674-11-2----Aroclor-1016\_

: 11104-28-2----Araclar-1221

1 11141-16-5----Arecler-1232

: 53469-21-9----Araclar-1242

1 12672-29-6----Aroclor-1248

: 11097-69-1----Aroclor-1254\_\_

: 11096-82-5----Aroclor-1260\_\_\_

: 72-43-5-----Methoxychlor

53494-70-5----Endrin ketone\_

: 5103-71-9-----alpha-Chlordane\_\_\_

: 5103-74-2----gamma-Chlordane\_\_\_\_

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0.10:0

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0.5011

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EPA SAMPLE . INORGANIC ANALYSIS DATA SHEET 69685 Lab Name: NET ATLANTIC THOROFARE DI Contract: Case No.: ab Code: NET SAS No.: SALFORD SDG No.: 696 atrix (soil/water): WATER Lab Sample ID: 23180-0 evel (low/med): LOW Date Received: 07/18/9 Solids: 0.0 DRA Concentration Units (ug/L or mg/Kg dry weight): UG/L CAS No. | Analyte | Concentration | C | MI |7429-90-5 |Aluminum 30.00 | 01 12 17440-36-0 | Antimony | 308.001 1 P |7440-38-2 | Arsenic 2.00 | U | F 17440-39-3 |Barium 207.001 | 12 1 |7440-41-7 |Beryllium| 2.00 | U | I P |7440-41-7 | Cadmium | 2.00 | 0 | PI |7440-70-2 |Calcium 50000.001 1 IP I 17440-47-3 | Chromium | 3.00 | 0 | P 17440-48-4 | Cobalt 5.00101 I P 17440-50-8 | Copper 5.00131 I P 17439-89-6 | Iron 76.001B1 PI |7439-92-1 |Lead 3.00101 IFI |7439-95-4 |Magnesium| 20200.001 | P 17439-96-5 | Manganese | 2.00 | 0 | 1 P |7439-97-6 |Mercury | 0.20|0| ICVI 17440-02-0 | Nickel 6.00 | 11 1 P | 17440-09-7 | Potassium | 834.00 | B | 18 1 |7782-49-2 | Selenium | 3.00 | 0 | IF 17440-22-4 |Silver 4.00 | 0 | I P 17440-23-5 | Sodium 11300.001 1 I P |7440-28-0 |Thallium 3.00 U W | **!** 17440-62-2 | Vanadium 4.00101 1 P I P 17440-66-6 | Zinc 45.00 l 287.00| 1 Boron I P Cyanide 10 10.00101 Molor Before: Clarity Before: Texture: Artifacts: Clarity After: Color After: :sinemes 826B-D013-GW01 AR500270

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

## 841 Chestnut Building Philadelphia, Pennsylvania 19107

Office of Superfund
SE Pennsylvania Remedial Section

Direct Dia! (215) 597-8257 Mail Code 3HW21

November 5, 1991

M 230 Fawn Drive Harleysville, Pennsylvania 19438

Re: Analysis of the dome Well during the

Remedial Investigation of the Salford Quarry Site

Dear Mr

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The <u>preliminary</u> results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

#### CONTAMINANT

#### CONCENTRATION

Boron

5,020 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the other substance which was analyzed for and detected in your well, lead, (please refer to the enclosed Sample Result Reports) pose no threat to consumers. This constituent was either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

Cesar Lee (3HW21)

Remedial Project Manager

SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports

Summary of Select EPA Standards

Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

		INORGANIC	amalysis data	SHEET	EPA SAMPLE NO.
Lab Name: ETC Lab Code:		lase No.:	Contra SAS No		D023GW01.
			SAM NO		·
Matrix (soil/water): WATER				Lab Sample	ID: CA8574
Level (low/me	d): LOW			Date Recei	wed: 09/13/91
% Solids:	٥				
Co	ncentration	Units (ug	/L or mg/kg dry	weight):	ug/L
	CAS No.	Analyte	Concentration	C Q M	DRAF
	7429-90-5	Aluminum			
	7440-36-0		i <del></del> i	-;;;	
	7440-38-2	Arsenie_			
	17440-39-3	Berium_			
	17440-41-7	Beryllium			
	17440-43-9				
	7440-70-2				
	17440-47-3				
	7440-48-4	Cobels		_!!_	
	7440-50-8	Cobber		_!!!	
•	17439-89-6			-	
	17439-92-1		4.24	-!!* !	
	7439-95-4  7439-96-5			-!!!	
	7439-97-6			-::	
	7440-02-0			-{{}	
	7440-09-7			-{	
	1782-49-4	Selenium		-	
	7440-22-4	Silver		-;;;	
	17440-23-5			-ii-i	
	7440-28-0			-iii	
	7440-62-2	Vanedium	i III i		
	7440-66-6	Zine			
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Color After:	Cera	clar:	ity After: 💆	Bay Arti	facts:
Comments:					

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3/70